







THE  
GEORGE WASHINGTON UNIVERSITY  
BULLETIN

CATALOGUE NUMBER

MARCH 1915

BALTIMORE  
WILLIAMS & WILKINS CO.  
1915



THE  
GEORGE W. WHITE PAPER  
BULLETIN

CATALOGUE

1911

GEORGE W. WHITE  
PUBLISHED BY THE  
GEORGE W. WHITE



## CONTENTS

<b>PART I. GENERAL AND HISTORICAL:</b>		<b>PAGE</b>
Calendar.....		8
Legal History (Charter).....		9-19
By-Laws.....		20-24
Ordinance.....		25-27
Trustees.....		28-29
Administrative Officers.....		30
President's Council.....		31
Teaching Staff.....		32-38
Organization.....		39
Library.....		39-40
 <b>PART II. DEPARTMENTS OF THE UNIVERSITY:</b>		
Department of Arts and Sciences.....		43-123
The School of Graduate Studies.....		46-50
The Colleges.....		51-87
Columbian College.....		70-79
College of Engineering.....		80-84
Teachers College.....		85-87
Courses of Instruction.....		88-123
Professional Departments:		
Law School.....		124-137
Medical School.....		138-169
Dental School.....		170-181
 <b>PART III. THE ASSOCIATED COLLEGES:</b>		
National College of Pharmacy.....		185-189
College of Veterinary Medicine.....		190-202
 <b>PART IV. STUDENTS:</b>		
Department of Arts and Sciences.....		205-245
School of Graduate Studies.....		205-218
Columbian College.....		218-234
College of Engineering.....		234-240
Teachers College.....		240-245
Law School.....		246-266
Medical School.....		267-271
Dental School.....		272-276



## PART IV. STUDENTS—Continued

National College of Pharmacy.....	275-276
College of Veterinary Medicine.....	277-278
Geographical Distribution.....	279

## MISCELLANEOUS:

General Summary.....	280
Degrees Conferred 1914-15.....	281-288
Allied Associations.....	289-291
Directory.....	293-300
Index.....	301-302



PART I  
GENERAL AND HISTORICAL



PART I  
GENERAL AND HISTORICAL



1915							1916													
JULY							JANUARY							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	..	..	..	..	..	..	1	..	..	..	..	..	..	1
4	5	6	7	8	9	10	2	3	4	5	6	7	8	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22	16	17	18	19	20	21	22
25	26	27	28	29	30	31	23	24	25	26	27	28	29	23	24	25	26	27	28	29
..	..	..	..	..	..	..	30	31	..	..	..	..	..	30	31	..	..	..	..	..
AUGUST							FEBRUARY							AUGUST						
1	2	3	4	5	6	7	..	..	1	2	3	4	5	..	..	1	2	3	4	5
8	9	10	11	12	13	14	6	7	8	9	10	11	12	6	7	8	9	10	11	12
15	16	17	18	19	20	21	13	14	15	16	17	18	19	13	14	15	16	17	18	19
22	23	24	25	26	27	28	20	21	22	23	24	25	26	20	21	22	23	24	25	26
29	30	31	..	..	..	..	27	28	29	..	..	..	..	27	28	29	30	31	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
SEPTEMBER							MARCH							SEPTEMBER						
..	..	..	1	2	3	4	..	..	..	1	2	3	4	..	..	..	..	..	1	2
5	6	7	8	9	10	11	5	6	7	8	9	10	11	3	4	5	6	7	8	9
12	13	14	15	16	17	18	12	13	14	15	16	17	18	10	11	12	13	14	15	16
19	20	21	22	23	24	25	19	20	21	22	23	24	25	17	18	19	20	21	22	23
26	27	28	29	30	..	..	26	27	28	29	30	31	..	24	25	26	27	28	29	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
OCTOBER							APRIL							OCTOBER						
..	3	4	5	6	7	8	..	..	..	..	..	..	1	1	2	3	4	5	6	7
10	11	12	13	14	15	16	2	3	4	5	6	7	8	8	9	10	11	12	13	14
17	18	19	20	21	22	23	9	10	11	12	13	14	15	15	16	17	18	19	20	21
24	25	26	27	28	29	30	16	17	18	19	20	21	22	22	23	24	25	26	27	28
31	..	..	..	..	..	..	23	24	25	26	27	28	29	29	30	31	..	..	..	..
..	..	..	..	..	..	..	30	..	..	..	..	..	..	..	..	..	..	..	..	..
NOVEMBER							MAY							NOVEMBER						
..	1	2	3	4	5	6	..	1	2	3	4	5	6	..	..	..	1	2	3	4
7	8	9	10	11	12	13	7	8	9	10	11	12	13	5	6	7	8	9	10	11
14	15	16	17	18	19	20	14	15	16	17	18	19	20	12	13	14	15	16	17	18
21	22	23	24	25	26	27	21	22	23	24	25	26	27	19	20	21	22	23	24	25
28	29	30	..	..	..	..	28	29	30	31	..	..	..	26	27	28	29	30	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
DECEMBER							JUNE							DECEMBER						
..	..	..	1	2	3	4	..	..	..	1	2	3	..	..	..	..	..	1	2	..
5	6	7	8	9	10	11	4	5	6	7	8	9	10	3	4	5	6	7	8	9
12	13	14	15	16	17	18	11	12	13	14	15	16	17	10	11	12	13	14	15	16
19	20	21	22	23	24	25	18	19	20	21	22	23	24	17	18	19	20	21	22	23
26	27	28	29	30	31	..	25	26	27	28	29	30	..	24	25	26	27	28	29	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	..	..	..	..	..	..



## UNIVERSITY CALENDAR

1915.

May	1	<i>Saturday</i> .—Last day on which theses of candidates for degrees at commencement may be presented.
May	17	<i>Monday</i> .—Doctorate Disputation.
May	24-27	<i>Monday to Thursday</i> .—Examinations for admission.
May	31	<i>Monday</i> .—A holiday in all departments of the University.
June	2	<i>Wednesday</i> .—Annual meeting of the Board of Trustees.
June	6	<i>Sunday</i> .—Baccalaureate Sermon.
June	9	<i>Wednesday</i> .—University Commencement.

### SUMMER VACATION

September	29	<i>Wednesday</i> .—Academic Year begins in all Departments of the University.
October	13	<i>Wednesday</i> .—Stated meeting of the Board of Trustees.
November	25-27	<i>Thursday to Saturday</i> , both inclusive.—Thanksgiving recess.

### RECESS FROM DECEMBER 24, 1915, TO JANUARY 3, 1916, BOTH INCLUSIVE

1916

January	12	<i>Wednesday</i> .—Stated meeting of the Board of Trustees.
January	24	<i>Monday</i> .—Last day on which theses of candidates for degrees at the Winter Convocation may be presented.
January	31	<i>Monday</i> .—Second half-year begins.
February	7	<i>Monday</i> .—Doctorate Disputation.
February	22	<i>Tuesday</i> .—Winter Convocation. A holiday in all Departments of the University.
April	21-24	<i>Friday to Monday</i> , both inclusive.—Easter holidays.
April	25	<i>Tuesday</i> .—Davis Prize Speaking.
May	1	<i>Monday</i> .—Last day on which theses of candidates for degrees at Commencement may be presented.
May	15	<i>Monday</i> .—Doctorate Disputation.
May	22-25	<i>Monday to Thursday</i> .—Examinations for admission.
May	30	<i>Tuesday</i> .—A holiday in all Departments of the University.
May	31	<i>Wednesday</i> .—Annual meeting of the Board of Trustees.
June	4	<i>Sunday</i> .—Baccalaureate Sermon.
June	7	<i>Wednesday</i> .—Commencement.



## THE LEGAL HISTORY OF THE CORPORATION

The George Washington University is the successor of the "Columbian College in the District of Columbia," which was chartered by Act of Congress in 1821. The name and title of the Columbian College were in 1873 changed by an Act of Congress, under the terms of which the College was given the name of the "Columbian University." The Columbian University was by Act of Congress in 1904 authorized to change its name, subject to the approval of the Secretary of the Interior and the Commissioner of Education. The Board of Trustees elected to take the name of "The George Washington University," and the name was approved by the government officials, as required by the statute; the change of name going into effect September 1, 1904. All the Acts of Congress now in force relative to the Columbian College and the Columbian University are therefore parts of the charter of The George Washington University.

The original charter of the Columbian College was as follows:

### An Act to incorporate the Columbian College, in the District of Columbia

*Be it enacted, &c.,* That there be erected, and hereby is erected and established, in the District of Columbia, a College, for the sole and exclusive purpose of educating youth in the English, learned, and foreign languages, the liberal arts, sciences, and literature; the style and title of which shall be, and hereby is declared to be, the "Columbian College in the District of Columbia."

SEC. 2. *And be it further enacted,* That the said College shall be under the management, direction, and government of a number of Trustees, not exceeding thirty-one, to be elected triennially, by the contributors to the said College, qualified to vote, in such manner, and under such limitations and restrictions, as may be provided by the ordinances of the College, on the first Monday in May; and that the first Trustees of the said College shall consist of the following persons, viz: Obadiah B. Brown, Luther Rice, Enoch Reynolds, Josiah Meigs, Spencer H. Cone, Daniel Brown, Return J. Meigs, Joseph Gibson, Joseph Cone, Thomas Corcoran, Burgis Allison, Thomas Sewall, and Joseph Thaw: which said Trustees, and their successors, shall forever hereafter be, and they are hereby declared to be, one body politic and corporate, with perpetual succession, in deed and in law, to all intents and purposes whatsoever, by the name, style and title of the "Columbian College in the District of Columbia;" by which name and title, they, the said Trustees, and their successors, shall be competent and capable, at law and in equity, to take to themselves and their successors, for the use of the said College, any estate, in any messuage, lands, tenements, hereditaments, goods, chattels, moneys, and other effects, by gift, grant, bargain, sale, conveyance, assurance, will, devise, or bequest, of any person or persons whatsoever: *Provided,* The same do not exceed, in the whole, the yearly

value of twenty-five thousand dollars; and the same messuages, lands, tenements, hereditaments, and estate, real and personal, to grant, bargain, sell, convey, assure, demise, and to farm, let, and place out on interest, for the use of the said College, in such manner as to them, or at least nine of them, shall seem most beneficial to the institution, and to receive the rents, issues, and profits, income and interest, of the same, and to apply the same to the proper use and benefit of the said College; and by the same name to sue, commence, prosecute, and defend, implead and be impleaded, in any courts of law and equity, and in all manner of suits and actions whatsoever, and generally, by and in the same name, to do and transact all and every the business touching or concerning the premises.

SEC. 3. *And be it further enacted*, That the said Trustees shall cause to be made for their use one common seal, with such devices and inscriptions thereon as they shall think proper, under and by which all deeds, diplomas, certificates, and acts of the said College, shall pass and be authenticated; and the same seal, at their pleasure, to break and devise a new one.

SEC. 4. *And be it further enacted*, That the said Trustees, or five of them at least, shall meet at the College, on College Hill, in the said District of Columbia, on the first Monday in March next, for the purpose of concerting and agreeing to such business as, in consequence of this Act, shall be proper to be laid before them at the commencement of the work they have undertaken, and shall have power to adjourn from time to time, as they shall see cause, to any other times or places, for the purpose of perfecting the same. That there shall be a stated meeting of the said Trustees held twice in every year at least, at such place and time as the said Trustees, or a quorum thereof, shall appoint, of which public notice shall be given, after the first meeting, at least twenty days before [the] time of such intended meeting, whenever the President, to be appointed by them, shall deem the business of the institution to require the same, and give due notice thereof, which he is hereby authorized to do; and if, at such stated or occasional meetings, five of the said Trustees shall not be present, those of them who shall be present shall have power to adjourn the meeting to any other day, as fully and effectually, to all intents and purposes, as if the whole number of Trustees for the time being were present; but, if five or more of the said Trustees shall meet at the said appointed times, or at any other time of adjournment, then such five of the said Trustees shall be a board or quorum, and a majority of the votes of them shall be capable of doing and transacting all the business and concerns of the said College not otherwise provided for by this Act; and particularly of making and enacting ordinances for the government of the said College; of electing and appointing the President, Professors, and Tutors, for the said College; of agreeing with them for their salaries and stipends, and removing them for misconduct, or breach of the laws of the institution; of appointing committees of their own body to carry into execution all and every the resolutions of the Board; of appointing a President, Treasurer, Secretary, stewards, managers, and other necessary and customary officers, for taking care of the estate and managing the concerns of the corporation; and, generally, a majority of voices of the board, or quorum of the said Trustees, consisting of five persons at least, at any semi-annual, occasional, or adjourned meeting, after notice, given as aforesaid, shall determine all matters and things (although the same be not herein particularly mentioned) which shall occasionally arise, and be incidentally necessary to be determined and transacted by the said Trustees *Provided always*, That no ordinances shall be of force which shall be repugnant to this charter, or to the laws of the District of Columbia.



SEC. 5. *And be it further enacted*, That the head or Chief Master for the said College shall be called and styled the "President," and the Masters thereof shall be called "Professors and Tutors;" but neither President, Professors, or Tutors, while they remain such, shall ever be capable of the office of Trustee.

SEC. 6. *And be it further enacted*. That the President, Professors and Tutors, or a majority of them, shall be called and styled the "Faculty of the College," which Faculty shall have the power of enforcing the rules and regulations adopted by the Trustees for the government of the pupils, by rewarding or censuring them, and finally, by suspending such of them who as after repeated admonitions shall continue disobedient and refractory, until a determination of a quorum of the Trustees can be had; and of granting and confirming, by and with the approbation and consent of a board of the Trustees, signified by their mandamus, such degrees in the liberal arts and sciences, to such pupils of the institution or others, who, by their proficiency in learning, or other meritorious distinction, they shall think entitled to them, as are usually granted and conferred in colleges; and to grant to such graduates, diplomas or certificates, under their common seal, and signed by the Faculty, to authenticate and perpetuate the memory of such graduation.

SEC. 7. *And be it further enacted*, That persons of every religious denomination shall be capable of being elected Trustees; nor shall any person, either as President, Professor, Tutor, or pupil, be refused admittance into said College, or denied any of the privileges, immunities, or advantages thereof, for or on account of his sentiments in matters of religion.

SEC. 8. *And be it further enacted*, That no misnomer of the said corporation shall defeat or annul any gift, grant, devise, or bequest, to or from the said corporation: *Provided*, The intent of the parties shall sufficiently appear upon the face of the gift, grant, will, or other writing, whereby any estate or interest was intended to pass to or from the said corporation.

SEC. 9. *And be it further enacted*, That the constitution of the said College, herein and hereby declared and established, shall be, and remain, the inviolate constitution of the said College forever; and the same shall not be altered or alterable by any ordinance or law of the said Trustees: *Provided*, That it may be lawful for the Congress of the United States to revoke and repeal this Act, at any and at all times whenever they shall think fit so to do.

SEC. 10. *And be it further enacted*, That it shall be the duty of the said Board of Trustees to keep a regular book or journal, in which shall be entered, under their direction, besides an account of all their ordinary acts and proceedings, all the by-laws, ordinances, rules, and regulations, which may be adopted by the said Board, for their own government, and for the government of the institution; also, a schedule of all the property and effects, real, personal, or mixed, which shall or may be vested in the said Trustees, for the use of the said College, by virtue of any gift, grant, bargain, sale, will, or otherwise, together with annual statements concerning the accounts and finances of the institution. That it shall, moreover, be the duty of the said Trustees, to cause to be enrolled, in the said book or journal, the names of all the contributors to the institution qualified to vote for Trustees, with their respective places of residence; and the said book or journal shall, at all times be open to the inspection or examination of the Attorney General of the United States; and, when required by either House of Congress, it shall be the duty of said Trustees to furnish information respecting their own conduct, the state of the institution, and of its finances, which shall or may be so required.

SEC. 11. *And be it further enacted*, That in case any vacancy or vacan-

cies shall happen in the Board of Trustees aforesaid by death, inability, resignation, or otherwise, at any time between the stated or triennial elections, that then it shall and may be lawful for the other Trustees, or any five of them, to proceed, at any subsequent meeting after the happening of such vacancy or vacancies, to choose, by ballot, any suitable person or persons to fill the same.

SEC. 12. *And be it further enacted*, That the employment or application of the funds or income of the said corporation, or any part thereof, for any purpose or object other than those expressed and defined in the first section of this Act, or the investment thereof in any other mode than is described and provided in the second section thereof, shall be deemed and taken to be a forfeiture of all the rights and immunities derived from this Act, and the same shall, thenceforth, cease and become null and void.

Approved, February 9, 1821.

By Act of Congress of July 14, 1832, there were donated to the Columbian College Washington city lots to the value of twenty-five thousand dollars; the Act providing that the fund arising from the proceeds of the sale of the lots should constitute an endowment fund for the support of professorships. By Act of February 28, 1839, permission was granted to the College to use seven thousand dollars of the fund for the payment of its debts.

By Act of Congress of February 21, 1871, a form of government by an elected Governor and Legislative Assembly was established for the District of Columbia, and on July 25, 1871, the Legislative Assembly passed the following statute:

*An Act for the relief of the Columbian College, in the District of Columbia*

*Be it enacted by the Legislative Assembly of the District of Columbia*, That the Columbian College, in the District of Columbia, chartered by and organized and acting under the Act of Congress approved February nine, eighteen hundred and twenty-one, may, from the proceeds of any sale of its property, apply such sum as may be needful to pay its present indebtedness and place its libraries, buildings, and apparatus of instruction in good condition, and execute all deeds needful to quiet the title of property already sold.

SEC. 2. *And be it further enacted*, That the Trustees of said College elected in May last shall constitute the corporation of said College until their successors in office shall be chosen and qualified as hereinafter provided, and may, until then, as vacancies occur in their number, temporarily fill them by the election of fit persons residing in the District of Columbia.

SEC. 3. *And be it further enacted*, That the said Trustees shall meet in the Law Building of said College at noon, on the twenty-fifth day of June, eighteen hundred and seventy-two, for the purpose of choosing, and shall then and there, or at the time and place to which said meeting may be adjourned, elect thirteen Trustees and thirteen Overseers, who shall, upon their election, constitute the College corporation, and they and their successors shall thenceforward be, and be known and recognized as, the Columbian College in the District of Columbia.

SEC. 4. *And be it further enacted*, That the Trustees chosen at the said meeting in June, eighteen hundred and seventy-two, or who may thereafter be chosen, shall be residents of the District of Columbia, and that at said meeting, and at any annual meeting of Trustees and Over-



seers to be thereafter held in said City of Washington on the Tuesday next preceding the last Wednesday in June, annually, the Trustees and Overseers in convention assembled shall fill vacancies in their Board, and shall, by ballot, elect from among the Trustees two suitable persons, one to be President and the other to be Treasurer and Secretary of said corporation and of the Board of Trustees, and shall establish ordinances and by-laws, or alter or repeal the same; and also frame laws and regulations for the College Faculty and students in all the departments thereof, and by ballot elect such teachers, tutors, professors, lecturers, and President, and with such salaries and duties as said corporation may deem proper.

SEC. 5. *And be it further enacted*, That at said annual meetings not less than seven Trustees and three Overseers shall constitute a quorum for the transaction of any business except adjournment, and adjournment may be made by any number present: *Provided*, That a final adjournment shall not be delayed beyond one week after the time fixed for the annual meeting.

SEC. 6. *And be it further enacted*, That during the interval between said annual meeting the Trustees shall, as now, hold semi-annual, quarterly, monthly, and occasional meetings to fill temporarily, as the case may require, vacancies in the Faculty or in their own Board, and with all their present powers as modified by this Act, subject to the ordinances and by-laws of the corporation; but no real estate or other property of said corporation shall, after the twenty-fifth day of June, eighteen hundred and seventy-two, be disposed of by the Trustees, except by vote of the corporation or in pursuance of its ordinances.

Approved, July 25, 1871.

This Act of the Legislative Assembly of the District was confirmed by Congress in 1873, and by the same statute the College was given the name of "the Columbian University." This Act was as follows:

An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbia[n] College in the District of Columbia

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That the act to incorporate the Columbia[n] College in the District of Columbia, approved February ninth, eighteen hundred and twenty-one, be, and the same is hereby, so modified that said corporation shall be hereafter known and called by the name of the Columbia[n] University, and in that name shall take, hold and manage all the estate and property now belonging to said College, or that may hereafter be conveyed, devised, or bequeathed to said corporation by its original name; that the restriction of the yearly value of the property of the said corporation to the sum of twenty-five thousand dollars be, and the said restriction is hereby, repealed; and that said corporation may increase the number of its Overseers to twenty-one, and the number of its Trustees to twenty-one, exclusive of the President of the Faculty, who shall be, *ex officio*, a Trustee of said corporation.

SEC. 2. That the Act for the Relief of the Columbian College in the District of Columbia enacted by the Legislative Assembly of said District, and approved July twenty-fifth, eighteen hundred and seventy-one, be, and the same is hereby, approved and confirmed: *Provided*, That this Act nor the said Act of the Legislative Assembly of the said District, shall be so construed as to authorize the said Columbian University to sell, or use the proceeds of any sale of land granted by Congress to said institution for any purpose other than that expressed in the Act

of Incorporation and the Act granting any such land or real estate, or contrary to any will, devise or grant of any land or real estate heretofore or hereafter made, by any person or persons to said institution.  
Approved, March 3, 1873.

By the Act of Congress of May 31, 1878, it was provided that the annual meeting of the corporation might be held either in May or June, and by the Act of January 14, 1893, it was provided that the Secretary and the Treasurer might be elected from the Trustees or not, as the Board of Trustees might deem proper, and that it should not be necessary that both offices should be held by one person.

In 1898 Congress amended the charter by an Act as follows:

An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbian College in the District of Columbia, and the Acts amendatory thereof

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Columbian University, on and after the first day of June, eighteen hundred and ninety-eight, shall be under the management and control of a Board of Trustees, consisting of twenty-two members; the President of the University shall be ex officio a member of said Board, and the remaining twenty-one shall be divided into three classes with seven members in each class; a majority of said Board shall be residents of the District of Columbia, and seven members shall constitute a quorum for the transaction of business. That on or before the thirty-first day of May, eighteen hundred and ninety-eight, a meeting of the Trustees and Overseers of said University shall be held, and said meeting shall elect twenty-one Trustees, seven of whom shall be designated to serve from the first day of June, eighteen hundred and ninety-eight, until the annual meeting in eighteen hundred and ninety-nine; and seven from the same date until the annual meeting in nineteen hundred; and seven until the annual meeting in nineteen hundred and one. Two-thirds of said Trustees, and also the President of the University, shall be members of regular Baptist churches; that is to say, members of churches of that denomination of Protestant Christians now usually known and recognized under the name of the regular Baptist denomination; said Trustees so elected shall serve for the periods mentioned and until their successors are elected. That on the first day of June, eighteen hundred and ninety-eight, the terms of office of the present Trustees and Overseers shall cease and determine and thereupon the control and management of said University, its property and trusts, shall vest in the Board of Trustees elected as hereinabove provided and their successors.*

SEC. 2. That at the annual meeting in eighteen hundred and ninety-nine, and annually thereafter, there shall be elected by the Board of Trustees seven Trustees to fill the places of the class whose terms of office expire; and the Board of Trustees may prescribe in a by-law the mode of nominating persons for election as Trustees. A failure to elect Trustees at the annual meeting shall not create vacancies in the Board, but such election may be had and vacancies occurring during the year may be filled for the unexpired term by the Board at any general or special meeting.

SEC. 3. That the Board of Trustees provided for herein shall have, and they are hereby given, full power and authority to appoint and remove any and all officers, professors, lecturers, teachers, tutors, agents,



and employees who are now or may hereafter be elected or appointed; they may, by a vote of two-thirds of all the Trustees constituting said Board, adopt and change by-laws for the conduct of the business and educational work of said University; they may appoint an Executive Committee composed of Trustees, designate the number and Chairman thereof, with such powers and authority as are usually exercised by an Executive Committee, and which shall be conferred by the Board, subject always to the control of the Board of Trustees; they may create and establish schools and departments of learning to be connected with and become a part of said University; they may receive, invest, and administer endowments and gifts of money and property for the maintenance of educational work by said University, and by any department and chair thereof now established or which may hereafter be created or established by said University; and they shall have all the powers and authority heretofore granted to and vested in the Trustees and Overseers of said University.

SEC. 4. That the annual meeting of the Board of Trustees shall be held in the City of Washington, District of Columbia, on the Wednesday nearest the first day of June in each year; two other stated meetings shall be held on the second Wednesday of October and January in each year, and special meetings may be called by the President of the University or by the Executive Committee or by seven members of the Board of Trustees upon such notice and at such hour and place as may be designated in the by-laws; at all meetings any business necessary to be transacted may be considered and acted upon, and any meeting may be adjourned from time to time by the Trustees present, whether constituting a quorum or not, notice of such adjournment to be given, as of called meetings, to those Trustees not present.

SEC. 5. That the terms of office of the President of the University, the Treasurer and other officers, professors, and lecturers, and the employment of agents and employees, and the title to all the property and rights in and management of the endowment funds of the University shall not be affected by the change of management herein provided for, but they shall continue and be subject to the control and management of the Board of Trustees hereby created the same as they are now subject to the control and management of the corporation.

SEC. 6. That all acts and parts of acts inconsistent with the provisions of this Act are hereby repealed.

Approved, March 18, 1898.

In 1904 Congress passed an Act restoring the non-denominational character of the institution and permitting the change of its name. This Act and the certificate of change of name were as follows:

An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbian College in the District of Columbia, and the Acts amendatory thereof

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That the Act to incorporate the Columbian College, in the District of Columbia, approved February ninth, eighteen hundred and twenty-one, and the amendatory Act approved March eighteenth, eighteen hundred and ninety-eight, be and the same are hereby, amended by repealing and striking out of the said charter the following words in lines twenty to twenty-five in section one of the said amendatory Act of March eighteenth, eighteen hundred and ninety-eight, namely, "Two-thirds of said Trustees, and also the



President of the University, shall be members of regular Baptist churches; that is to say, members of churches of that denomination of Protestant Christians now usually known and recognized under the name of the regular Baptist denomination."

SEC. 2. That section thirteen of the original charter of February ninth, eighteen hundred and twenty-one, which provides "That persons of every religious denomination shall be capable of being elected Trustees; nor shall any person, either as President, Professor, Tutor or pupil, be refused admittance into said College, or denied any of the privileges, immunities, or advantages thereof, for or on account of his sentiments in matters of religion," be, and the same is hereby, re-enacted and shall be hereafter in full force as a part of said charter.

SEC. 3. That power is hereby given to the Board of Trustees of said University to change the name of said University at any regular meeting by a vote of not less than two-thirds of the total number of members of the Board, as prescribed by the charter, subject to the approval of the Secretary of the Interior and the Commissioner of Education. That upon said action being taken a certificate, under the seal of the University, stating the name adopted and the date when the name shall go into effect not less than thirty days nor more than six months from the date of its adoption, together with the fact that said name has been adopted as herein prescribed, shall be filed in the office of the Recorder of Deeds of the District of Columbia, and thereupon, upon the date specified for the name to go into effect, the University shall be known and designated by the name adopted, and by said new name the said University shall be vested with and convey its real estate, hold, control, and administer endowments and gifts of money and property heretofore and hereafter made for the maintenance of its educational work, and do and perform all acts which it now has the power to do under its said charter. Such change of name shall not in any other way change, affect, or modify in any degree the rights, privileges, obligations, and powers of the said University under the charter of February ninth, eighteen hundred and twenty-one, and the amendatory Acts thereto.

SEC. 4. That all Acts and parts of Acts inconsistent with this Act are hereby repealed.

Approved, January 23, 1904.

Certificate of Change of Name of the Columbian University to "The George Washington University"

DISTRICT OF COLUMBIA,  
City of Washington:

The Columbian University, in accordance with the Act of Congress approved January 23, 1904, does hereby certify that, at the regular meeting of its Board of Trustees, duly held on the eighth day of June, 1904, at which meeting there were present more than two-thirds of the total number of members of the Board, it was unanimously resolved that, subject to the approval of the Secretary of the Interior and the Commissioner of Education, prescribed by said Act of Congress, the name of this University be changed to that of The George Washington University, the same to go into effect on the first day of September, A. D. 1904.

And it is hereby further certified, that on the twentieth day of June, A. D. 1904, the Secretary of the Interior and the Commissioner of Education duly approved in writing said change of name, which said written approval is hereto attached and made a part hereof.

In testimony whereof, said Columbian University has given this its

certificate under its corporate seal, at the City of Washington, D. C., on the twenty-first day of June, A. D. 1904.

Attest:

JOHN B. LARNER,  
*Secretary.*  
(Corporate Seal.)

CHARLES W. NEEDHAM,  
*President.*

UNITED STATES OF AMERICA,  
DEPARTMENT OF THE INTERIOR,  
WASHINGTON, D. C., June 20, 1904.

Pursuant to section 882 of the Revised Statutes, I hereby certify that the annexed paper is a true copy of the original as it appears upon the files of the Department.

In testimony whereof, I have hereunto subscribed my name, and caused the seal of the Department of the Interior to be affixed, the day and year first above written.

E. A. HITCHCOCK,  
*Secretary of the Interior,*  
W. B. A.

(Seal of the Department of the Interior.)

Whereas by Act of Congress approved January 23, 1904, the Columbian University was authorized to change its name, subject to the approval of the Secretary of the Interior and the Commissioner of Education;

And whereas it has been made satisfactorily to appear to us that, at the regular meeting of the Board of Trustees of said University, held on the eighth day of June, A. D. 1904, at which meeting there were present more than two-thirds of the total number of members of said Board, it was unanimously resolved to change the name of said University to that of The George Washington University, the same to go into effect on the first day of September, A. D. 1904;

Now, therefore, this is to witness that, pursuant to said Act of Congress, we do hereby, this twentieth day of June, A. D. 1904, approve said change of name.

E. A. HITCHCOCK,  
*Secretary of the Interior.*  
W. T. HARRIS,  
*Commissioner of Education.*

(Seal of the Department of the Interior.)

In 1905 a further amendment to the charter was made, as follows:

An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbian College in the District of Columbia, and the Acts amendatory thereof

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That The George Washington University shall have, and is hereby given, power to increase the number of its Trustees from time to time, by a two-thirds vote of the whole number of the Trustees at the time such vote is taken, to a number not exceeding forty-five. In case of the increase of the number of Trustees a certificate, stating the number of the Board and the time when it shall go into effect and that the action so taken was by two-thirds vote as required by this Act, shall be filed with the Recorder of Deeds of the District of Columbia, and upon and after the date named the Board shall consist of the number of Trustees, stated in such certificate, and said



Board may also appoint a Board or Boards of Visitors for any department or departments of educational work carried on by the University, such Boards of Visitors to be advisory only.

SEC. 2. That by and with the consent of said University, Colleges may be organized hereunder for the purpose of carrying on, in connection with the University, special lines of educational work in the arts, sciences, and liberal and technical knowledge, such Colleges to be educationally a part of the system of the University, but upon independent financial foundations, and to this end any five or more persons desirous of associating themselves for the purpose of establishing a College hereunder, may make, sign, and acknowledge before any officer authorized to take acknowledgment of deeds in the District of Columbia, and with the assent of the University in writing, file in the office of the Recorder of Deeds of the said District a certificate in writing, in which shall be stated: First, the intention to organize a corporation under this Act and the assent of the University thereto; second, the name or title by which the College shall be known in law; third, the names of the Trustees constituting the first Board, and such Trustees may be divided into three classes, the term of office of one class expiring annually; fourth, the manner of nominating and electing successors to said Trustees; fifth, the branch or branches of literature, arts, sciences, liberal or technical knowledge proposed to be taught; sixth, that the highest officer of said College shall be a Dean, the Dean and members of the Faculty to be members of the Educational Councils of the University in accordance with the rules governing the University; seventh, that all degrees shall be bestowed by the University; eighth, that in all financial and legal responsibility the College shall be an independent organization. Upon filing such certificate the Trustees named therein and their successors shall be a body politic, incorporated by the name and style stated in the certificate, and by that name and style shall have perpetual succession in association with the University, with power in the College to sue and be sued; plead and be impleaded; to acquire, hold, and convey property in all legal ways; to receive by gift, devise, or otherwise, and hold, control, and administer endowments and gifts of money and property thereafter made to it for the maintenance of its educational work; to have and use a common seal, and to alter and change the same at pleasure; to make and alter from time to time such by-laws, not inconsistent with the Constitution of the United States or the laws in force in said District or the laws of the University regulating the conduct of educational work, as may be deemed necessary for the government of the College, but said College shall not confer academic or honorary degrees; such College shall hold the property of the institution and all moneys and property conveyed to it by purchase, gift, conveyance, will, devise, or bequests solely for the purposes of the educational work specified in said certificate; the Trustees of such College shall faithfully apply all funds collected or received and the proceeds thereof belonging to the institution, according to their best judgment, in purchasing lands and erecting buildings, supporting necessary officers, instructors, and servants, and procuring all equipment, educational and otherwise, necessary to carry on the work of the College.

SEC. 3. That said University may enter into affiliated agreements with any institutions of learning outside of the District of Columbia, for the purpose of giving to students of such institutions the educational facilities of said University and the Departments of the Government in the City of Washington which are by law open to students, upon such terms as are mutually agreed upon by the said University and the affiliated institutions.

Approved, March 3, 1905.

Under section 2 of the Act of 1905, there now exist two colleges which are doing special educational work and which are in active operation—the National College of Pharmacy, organized in 1905, and the College of Veterinary Medicine, organized in 1908. The financial affairs of these Colleges are separate from those of the University, and are managed by their separate Boards of Trustees. The Faculties of these Colleges are also appointed by their respective Boards of Trustees. The connection between these Colleges and the University consists in the fact that their Deans are members of the President's Council, and that the Board of Trustees of the University confers degrees for the work done in these Colleges.

By resolutions of the Board of Trustees of the University of May 6, 1909, and January 12, 1910, provision was made for the nomination by the Alumni of two Alumni Trustees each year. In the spring of 1910, this plan was put in operation, and since then the two persons annually nominated as Alumni Trustees have been elected to membership on the Board.



## BY-LAWS OF THE GEORGE WASHINGTON UNIVERSITY

### ARTICLE I

#### *The President of the University*

SECTION 1. The President of the University shall hold office without limit of time, until his resignation be accepted, or he be removed from office by the Board of Trustees; he shall be the executive head of the University and of all its departments, exercising such supervision, direction, and control as will promote the efficiency of every department; he shall be responsible, under the supervision of the Board of Trustees, for the discipline of the University; he shall preside at the meetings of the Faculties, and be the official medium of communication between the Faculties and the Board of Trustees, and between the students of the University and the Board of Trustees; he shall recommend to the Board of Trustees appointments to the several Faculties; he shall be responsible for carrying out such measures concerning the internal administration of the University as the Board of Trustees may enact. He shall make a yearly report to the Board of Trustees at the January meeting concerning the state of the University. He shall control the expenditure and administration of the yearly budget when formally adopted by the Board of Trustees.

### ARTICLE II

#### *Board of Trustees*

SECTION 1. No member of the teaching staff of the University except the President of the University, or of the teaching staff of any college incorporated under the charter of the University, while he remains such, shall be capable of holding the office of Trustee of the University.

SEC. 2. At the annual meeting of the Board after the election of Trustees, the Board shall elect by ballot from among their number a Chairman and Vice-Chairman of the Board to serve until the next annual meeting and until their successors are elected and qualified. The Chairman of the Board, and in his absence the Vice-Chairman, shall preside at all meetings of the Board of Trustees.

SEC. 3. At the annual meeting after the election of Trustees the Board shall elect by ballot the following officers, to serve until the next annual meeting and until their successors are elected and qualified: a Secretary, a Treasurer, an Auditor, and a Counsel of the University.

SEC. 4. In the event of a failure for any reason so to elect either or

all of the said officers, or in case of any vacancy from any cause, then an election may be held for the unexpired term at a meeting called for that purpose.

SEC. 5. The annual meeting of the Board of Trustees shall take place on the Wednesday nearest the first day of June of each year, or when that Wednesday is a legal holiday on the first following business day.

SEC. 6. Stated meetings of the Board shall be held on the second Wednesdays of October and January.

SEC. 7. Notice of all stated meetings shall be mailed by the Secretary of the University to each member of the Board at least five days previous to the time of such meetings.

SEC. 8. Special meetings may be called at any time by the President of the University, the Executive Committee, or by seven members of the Board of Trustees. The Secretary shall issue the notices of such meetings.

SEC. 9. The call for special meetings shall state the nature of the business to be considered, and shall be mailed at least two days before the meeting is to be held.

SEC. 10. Seven members of the Board of Trustees shall constitute a quorum for the transaction of any business.

### ARTICLE III

#### *Executive Committee*

SECTION 1. There shall be an Executive Committee of seven members of the Board of Trustees, of which the President of the University shall be Chairman *ex officio*. The other members of the committee shall be elected by ballot at the annual meeting, and shall serve until their successors are elected.

SEC. 2. In case of inability to act on the part of any member of the Committee his place may be filled by the Board of Trustees.

SEC. 3. Four members of the Committee shall constitute a quorum for the transaction of business.

SEC. 4. The Committee is authorized to transact such business as may require attention between the regular meetings of the Board of Trustees; but the Chairman of the Committee shall make report at each stated meeting of the Board on the proceedings of the Committee during the intervening period, and at any meeting of the Board, if any member of the Board shall request that the report of the proceedings of any meeting or meetings of the Committee be read, the same shall be read by the Secretary.

SEC. 5. Regular meetings of the Committee shall be held during the academic year monthly, and special meetings may be called by the Secretary whenever requested by the Chairman or any two members of the Committee.

SEC. 6. In case of inability to act on the part of the Chairman of the Committee, the Committee may appoint a temporary chairman for the meeting.



## ARTICLE IV

*Finance Committee*

SECTION 1. There shall be a Finance Committee of three members of the Board of Trustees who shall be elected at the annual meeting to serve until their successors are elected.

SEC. 2. The Committee shall invest and reinvest University funds, and shall exercise general supervision over the Treasurer's office, making report at every regular meeting of the Board of Trustees.

## ARTICLE V

*Visiting Committees*

SECTION 1. At the annual meetings there shall be appointed a Committee of three members for each school or department of the University, who shall visit and inspect the condition and conduct of the school or department and make a written report thereon to the stated meetings of the Board of Trustees.

## ARTICLE VI

*The Secretary of the University*

SECTION 1. The Secretary of the University shall as such attend and keep minutes of all meetings of the Board of Trustees, the Executive Committee, the educational council and faculties, as may by resolution of the Board be required to keep records. He shall give to any meeting at which he is entitled to be present any information concerning University affairs which he may have and which may be proper to be brought before such meeting. He shall have the custody of all the files and records of the University proper to his office; he shall have the custody of the corporate seal of the University, and shall affix it to corporate acts authorized by the Board of Trustees or the Executive Committee, and he shall generally do and perform such administrative duties as may be assigned him by the President from time to time not inconsistent with the by-laws.

## ARTICLE VII

*The Treasurer of the University*

SECTION 1. The Treasurer shall give bond or shall be bonded in a surety company, at the expense of the University, for the faithful performance of his duties in such sum and with such sureties as shall be approved by the Board of Trustees.

SEC. 2. He shall keep all the funds of the University in such bank or banks as the Board of Trustees shall designate; he shall keep the trust funds, and the full account thereof, separate from the current or general funds and accounts of the University; he shall make monthly statements, showing the current financial operations and the condition of the trust funds and other invested funds to the Executive Committee; he shall

make a full report annually to the Board of Trustees as specified in Article XI, and he shall at such other times make such reports as the Trustees may require.

SEC. 3. He shall make payments only by checks upon the bank countersigned by the President of the University, or in his absence by the Secretary, and only for investments, salaries, bills, and expenses authorized by the Board of Trustees or the Executive Committee, provided, however, that when the Treasurer is absent or incapacitated, or when the office of Treasurer is vacant, or when the President and Secretary are both absent or incapacitated, or in any other emergency, the Executive Committee may by resolution make special and temporary arrangements for the signing or countersigning of checks.

#### ARTICLE VIII

##### *The Auditor of the University*

SECTION 1. The Auditor of the University shall make three audits each year of the books and accounts of the Treasurer. The fiscal year shall end at midnight on August 31 of each year, and the accounts shall be audited as of December 31, April 30, and August 31 at midnight.

SEC. 2. A corporation may be elected by the Board of Trustees as the Auditor of the University.

#### ARTICLE IX

##### *The Counsel of the University*

SECTION 1. The Counsel of the University shall render opinions to the President, the Board of Trustees, or to the Executive Committee, when requested, upon legal questions arising in the management of the educational or business affairs of the University, and shall represent the University in all legal proceedings prosecuted by or against the University. The Counsel of the University may be a member of the Board of Trustees.

#### ARTICLE X

##### *Committee on Catalogue*

SECTION 1. Each year the annual catalogue of the University shall be prepared by a committee consisting of the President of the University as Chairman, the Secretary of the University, and three members of the Faculty of the University appointed by the President. The Catalogue shall be published annually in pamphlet form. Each annual catalogue shall contain the charter and by-laws of the University.

#### ARTICLE XI

##### *Annual Financial Report*

SECTION 1. Between July 1 and October 1 in each year there shall be prepared by the Treasurer a financial report showing in detail the



financial condition of the University during the previous year, which financial report shall be certified by the Auditor to be correct. This report shall be laid before the Board of Trustees at their October meeting, and when approved by the Board of Trustees shall, with any modifications ordered by them and assented to by the Treasurer and Auditor, be printed by the University in pamphlet form.

#### ARTICLE XII

##### *Sale of Land and Other Assets*

SECTION 1. Real estate and other securities of the University shall not be sold or disposed of except by direction of the Board of Trustees.

SEC. 2. All deeds and conveyances of real estate belonging to the University shall be signed by the President of the University and the Secretary, and the same shall be acknowledged, attested, and the seal of the University attached thereto by the Secretary.

#### ARTICLE XIII

##### *Amendments*

SECTION 1. These by-laws may be amended or repealed at any meeting of the Board by a vote of the majority of all members of the Board, provided notice of the proposed amendment or change has been sent to each member of the Board at least five days before the meeting.

#### ARTICLE XIV

##### *Former By-Laws Repealed*

SECTION 1. All by-laws heretofore enacted are hereby repealed.

## ORDINANCE

### ARTICLE I

#### *Organization*

SECTION 1. The departments, colleges, and schools forming an integral part of the University are as follows: The Department of Arts and Sciences, comprehending the School of Graduate Studies, Columbian College, the College of Engineering, the Teachers College; the Law School; the Medical School; the Dental School. These departments, colleges, and schools are subject to the Board of Trustees represented by the President of the University, and unless otherwise noted, to the rules and regulations herein set forth.

SEC. 2. Associated colleges organized in accordance with the charter of the University on independent financial foundations are under the immediate control of their respective Boards of Trustees, subject in educational matters to the authority of the President and the University Board of Trustees. The National College of Pharmacy and the College of Veterinary Medicine are such associated colleges.

SEC. 3. The Medical School including the University Hospital, and the Dental School are organized under special ordinances of the Board of Trustees, and are subject to the rules and regulations of this ordinance only where the special ordinances governing them do not conflict with this ordinance.

### ARTICLE II

#### *Faculties*

SECTION 1. Each department, college, and school shall be under the immediate charge of a faculty subject to the authority of the President's Council. The faculties shall recommend to the Board of Trustees candidates for degrees, diplomas, certificates, and awards.

SEC. 2. Each faculty shall be composed of all the Professors, Assistant Professors, and Instructors who teach in the department, school, or college under the charge of that faculty, and of such other members as the faculty may, on the recommendation of the Dean, with the approval of the President, admit to membership. The President shall be *ex officio* a member of each faculty, and the Secretary shall *ex officio* have voice at all faculty meetings, but no vote.



SEC. 3. A faculty may, at its discretion, delegate any of its purely administrative powers to an executive committee of which a Dean shall be Chairman, the members of which shall be nominated by that Dean and appointed by the President. Every executive committee shall be subject to the authority of the faculty from which it is appointed.

### ARTICLE III

#### *President's Council*

SECTION 1. The President's Council shall have charge of all administrative educational questions, subject to the confirmation of the Board of Trustees.

SEC. 2. The President's Council shall be responsible for the coördination of work throughout the University and shall have immediate jurisdiction over every administrative educational question touching the interests of more than one department, college, or school.

SEC. 3. The President's Council shall be composed of the President of the University, the Secretary of the University, and of all the Deans in the University, *ex officio*, and of a representative or representatives from each department, college, and school of the University to be elected annually by the faculties of the respective departments, colleges, and schools; those departments, colleges, and schools with a registration of less than two hundred students having one representative, those with more than two hundred students having two representatives.

### ARTICLE IV

#### *Deans*

SECTION 1. The Dean of each department, college, or school shall be appointed by the Board of Trustees from among the members of its faculty. The Dean shall, under the President, be the chief executive officer of his department, college, or school. As such he shall have authority in his department, college, or school to enforce such regulations as may be imposed by the Board of Trustees or the Faculty. He shall be held responsible for the proper preparation and conduct of the business of his department, college, or school, and for the performance of such administrative duties as pertain to his office and may be required of him by the President. He shall make annual written reports to the President.

### ARTICLE V

#### *Titles of the Teaching Staff*

SECTION 1. The academic titles of those engaged in teaching shall be Professor, Assistant Professor, Instructor, Assistant, Demonstrator, and Lecturer. The word "Associate" may be prefixed to any title where, under the terms of this ordinance, it is appropriate, and in the Medical School this title may be used as provided in the special ordinances governing that department.

## ARTICLE VI

*Appointments*

SECTION 1. Instructors, Assistants, Demonstrators, and Lecturers shall, in the absence of agreement to the contrary, be appointed annually, with such compensation as shall be fixed by the Board of Trustees at the time of the appointment.

SEC. 2. Assistant Professors shall not be appointed for more than three years, subject to removal in accordance with the provisions of the charter of the University, and shall serve as Assistant Professors for at least three years before being eligible for promotion to a professorship.

SEC. 3. Professors shall be appointed without limit of time, subject to removal in accordance with the provisions of the charter of the University.

## ARTICLE VII

*Academic Year*

SECTION 1. The academic year shall begin on the last Wednesday of September, and shall end on the Wednesday following the annual meeting of the Board of Trustees.



## THE BOARD OF TRUSTEES

CHARLES HERBERT STOCKTON, LL.D.

*President of the University*

1915

ABRAM LISNER, 1723 Massachusetts Avenue

WILLIAM ANDREW MEARN, LL.M., 2301 S Street

\*THEODORE WILLIAMS NOYES, A.M., LL.M.,

1101 Pennsylvania Avenue

HENRY CLEVELAND PERKINS, 1701 Connecticut Avenue

\*ALEXANDER TAIT STUART, A.M., The Wyoming

MAXWELL VAN ZANDT WOODHULL, A.M., 2033 G Street

1916

HENRY GUSTAV BEYER, M.D., Ph.D., The Marlborough

\*JAMES HOLDSWORTH GORDON, A.M., LL.B., 412 Fifth Street

ARCHIBALD HOPKINS, A.M., LL.B., 1826 Massachusetts Avenue

THOMAS SNELL HOPKINS, LL.B., Hibbs Building

WILLIAM BRUCE KING, A.M., LL.M., 1708 S Street

MARTIN AGUSTINE KNAPP, A.M., LL.D., Southern Building

1917

CHARLES BERGER CAMPBELL, Phar.D., M.D., 1731 Lamont Street

\*HARRY CASSELL DAVIS, A.M., L.H.D., 1006 Massachusetts Avenue

WILLIAM JAMES FLATHER, Riggs National Bank

\*JOHN B. LARNER, LL.B., LL.D., 900 F Street

HENRY BROWN FLOYD MACFARLAND, 1420 New York Avenue

WALTER RUPERT TUCKERMAN, A.B., LL.B., 710 Fourteenth Street

HENRY WHITE, LL.D., 1624 Crescent Place

---

\* Nominated by the Alumni.

CHAIRMAN OF THE BOARD OF TRUSTEES

JOHN B. LARNER

VICE-CHAIRMAN OF THE BOARD OF TRUSTEES

ARCHIBALD HOPKINS

STANDING COMMITTEES OF THE BOARD OF TRUSTEES

*Executive.*—C. H. STOCKTON, H. C. DAVIS, W. J. FLATHER, A. HOPKINS,  
A. LISNER, W. B. KING, M. VAN Z. WOODHULL.

*Finance.*—W. J. FLATHER, A. HOPKINS, M. VAN Z. WOODHULL.

*Subscriptions and Endowments.*—A. LISNER, H. B. F. MACFARLAND, H. C.  
PERKINS, W. J. FLATHER, M. VAN Z. WOODHULL.

*Honorary Degrees.*—C. H. STOCKTON, H. G. BEYER, A. HOPKINS, H.  
WHITE.

*Columbian College.*—H. C. DAVIS, J. H. GORDON, W. B. KING.

*Engineering.*—H. C. PERKINS, W. A. MEARN, T. S. HOPKINS.

*School of Graduate Studies and Teachers College.*—A. T. STUART, H. G.  
BEYER, H. C. DAVIS.

*Law.*—J. B. LARNER, H. B. F. MACFARLAND, J. H. GORDON.

*Medicine, Dentistry, and Hospital.*—M. A. KNAPP, W. J. FLATHER, J. B.  
LARNER.

*Associated Colleges.*—T. S. HOPKINS, C. B. CAMPBELL, T. W. NOYES.

---

*Counsel:* CLEPHANE AND CLEPHANE.

*Auditor:* AMERICAN AUDIT COMPANY.



## ADMINISTRATIVE OFFICERS

### THE UNIVERSITY

- President.*—CHARLES HERBERT STOCKTON, LL.D.  
*Secretary.*—RICHARD COBB, A.B.  
*Offices.*—2023 G Street.  
*Treasurer.*—CHARLES WENDELL HOLMES.  
*Office.*—2024 G Street.  
*Librarian.*—ALFRED FRANCIS WILLIAM SCHMIDT, A.M.  
*Office.*—2023 G Street.

### DEPARTMENT OF ARTS AND SCIENCES

- Dean.*—HOWARD LINCOLN HODGKINS, Ph.D.  
*Dean of Columbian College.*—WILLIAM ALLEN WILBUR, A.M.  
*Dean of the College of Engineering.*—HOWARD LINCOLN HODGKINS, Ph.D.  
*Dean of Teachers College.*—WILLIAM CARL RUEDIGER, Ph.D.  
*Recorder.*—ELEANOR WILSON HANCE, S.M.  
*Offices.*—2023 G Street.  
*Dean of the School of Graduate Studies.*—CHARLES EDWARD MUNROE, Ph.D., LL.D.  
*Office.*—1325 H Street.

### LAW SCHOOL

- Dean.*—EVERETT FRASER, A.B., LL.B.  
*Secretary.*—WILLIAM CABELL VAN VLECK, A.B., LL.B.  
*Office.*—New Masonic Building.

### MEDICAL SCHOOL

- Dean.*—WILLIAM CLINE BORDEN, M.D.  
*Librarian.*—HARRY KNOX CRAIG, M.D.  
*Offices.*—1325 H Street.

### DENTAL SCHOOL

- Dean.*—JOHN ROLAND WALTON, D.D.S.  
*Office.*—1325 H Street.

### NATIONAL COLLEGE OF PHARMACY

- Dean.*—HENRY E. KALUSOWSKI, M.D., Phar.D.  
*Office.*—808 I Street.

### COLLEGE OF VETERINARY MEDICINE

- Dean.*—DAVID EASTBURN BUCKINGHAM, V.M.D.  
*Office.*—2113 Fourteenth Street.

## PRESIDENT'S COUNCIL

(Arranged in Departmental Groups)

CHARLES HERBERT STOCKTON, LL.D.,... PRESIDENT OF THE UNIVERSITY  
 RICHARD COBB, A.B.,..... Secretary of the University  
 CHARLES EDWARD MUNROE, Ph.D., LL.D.

Dean of the School of Graduate Studies

HERMANN SCHOENFELD, Ph.D., LL.D.,..... Professor of German  
 WILLIAM ALLEN WILBUR, A.M.,..... Dean of Columbian College  
 CHARLES CLINTON SWISHER, Ph.D., LL.D.,..... Professor of History  
 GEORGE NEELY HENNING, A.M.,..... Professor of Romance Languages  
 HOWARD LINCOLN HODGKINS, Ph.D.,

Dean of the College of Engineering

EDWIN VIVIAN DUNSTAN, C.E.,..... Professor of Civil Engineering  
 WILLIAM CARL RUEDIGER, Ph.D.,..... Dean of the Teachers College  
 ALFRED FRANCIS WILLIAM SCHMIDT, A.M.,..... Professor of German  
 EVERETT FRASER, A.B., LL.B.,..... Dean of the Law School  
 JOHN PAUL EARNEST, A.M., LL.M.,..... Professor of Law  
 MERTON LEROY FERNON, A.M., LL.B.,..... Professor of Law  
 WILLIAM CLINE BORDEN, M.D.,..... Dean of the Medical School  
 SHEPHERD IVORY FRANZ, Ph.D.,..... Professor of Physiology  
 JOHN ROLAND WALTON, D.D.S.,..... Dean of the Dental School  
 HENRY CLAY THOMPSON, D.D.S.,..... Professor of Operative Dentistry  
 HENRY E. KALUSOWSKI, Ph.D.,

Dean of the National College of Pharmacy

DAVID EASTBURN BUCKINGHAM, V.M.D.,

Dean of the College of Veterinary Medicine

## COMMITTEES OF THE PRESIDENT'S COUNCIL

*Catalogue and Other Publications.*—The President, the Secretary, Professors HODGKINS, WILBUR, and SWISHER.

*Admissions.*—Professors WILBUR, MUNROE, and RUEDIGER.

*Schedule.*—Professors HENNING, DUNSTAN, and RUEDIGER.

*Library.*—Professors SCHOENFELD, HENNING, the Librarian.

*Student Organizations.*—Professors RUEDIGER, HENNING, and McNEMAR.

*Debating.*—Professors McNEMAR, SCHREIBER; Messrs. HAMACK and MARCUS.



## UNIVERSITY MEMBERS OF FACULTIES AND TEACHING STAFF \*

(Arranged with the exception of the President, in groups, in the order  
of appointment.)

CHARLES HERBERT STOCKTON, LL.D., . . . . . PRESIDENT OF THE UNIVERSITY

### PROFESSORS

- J. FORD THOMPSON, M.D. . . . . Professor of Surgery, Emeritus
- GEORGE NICHOLAS ACKER, A.M., M.D.,  
Professor of Pediatrics and Clinical Professor of Medicine
- ✓ HOWARD LINCOLN HODGKINS, Ph.D. . . . . Dean of the Department of  
Arts and Sciences, Dean of the College of Engineer-  
ing, and Professor of Mathematics
- HENRY CRÈCY YARROW, M.D. . . . . Professor of Dermatology, Emeritus
- DANIEL KERFOOT SHUTE, A.B., M.D.,  
Professor of Neuro-Anatomy, and Clinical Professor of Ophthalmology
- HENRY CLAY THOMPSON, D.D.S. . . . . Professor of Operative Dentistry
- ✓ HERMANN SCHOENFELD, Ph.D., LL.D. . . . . Professor of German
- STERLING RUFFIN, M.D. . . . . Professor of Medicine
- ✓ CHARLES EDWARD MUNROE, Ph.D., LL.D.,  
Dean of the School of Graduate Studies and Professor of Chemistry
- ✓ GEORGE PERKINS MERRILL, Ph.D., Professor of Geology and Mineralogy
- CHARLES WILLIAMSON RICHARDSON, M.D.,  
Professor of Laryngology, Rhinology, and Otology
- ✓ FRANK WIGGLESWORTH CLARK, Sc.D. . . . Professor of Mineral Chemistry
- MELVILLE CHURCH, LL.M. . . . . Professor of the Law of Patents
- ✓ WILLIAM ALLEN WILBUR, A.M.,  
Dean of Columbian College and Professor of English
- JOHN WESLEY BOVÉE, M.D. . . . . Professor of Gynecology
- THOMAS ASH CLAYTOR, M.D. . . . . Clinical Professor of Medicine
- AURELIUS RIVES SHANDS, M.D. . . . . Professor of Orthopedic Surgery
- ✓ CHARLES CLINTON SWISHER, Ph.D., LL.D. . . . . Professor of History
- RANDOLPH BRYAN CARMICHAEL, M.D. . . . . Professor of Dermatology
- FRANCIS RANDALL HAGNER, M.D.,  
Professor of Genito-Urinary Surgery and Venereal Diseases
- WALTER COLLINS CLEPHANE, LL.M. . . . . Professor of Law

\* NOTE—In many instances members of the Teaching Staff give only part time to the University. For the names of the members of the Faculties and Teaching Staff of the Associated Colleges, see Part III of this catalogue.

- ✓ MITCHELL CARROLL, Ph.D.,  
Professor of Archaeology and the History of Art
- ✓ PAUL BARTSCH, Ph.D..... Professor of Zoology
- ✓ EDWIN CHARLES BRANDENBURG, LL.M..... Professor of Law
- ✓ ARTHUR PETER, LL.B..... Professor of Law
- ✓ WILLIAM CREIGHTON WOODWARD, LL.M., M.D.,  
Professor of Medical Jurisprudence
- ✓ ALBERT LIVINGSTON STAVELY, M.D..... Clinical Professor of Gynecology
- ✓ GEORGE NEELY HENNING, A.M..... Professor of Romance Languages
- ✓ JOHN PAUL EARNEST, A.M., LL.M..... Professor of Law
- ✓ JOHN ROLAND WALTON, D.D.S..... Dean of the Dental School and  
Professor of Prosthetic Dentistry and Orthodontia
- ✓ WILLIAM ALANSON WHITE, M.D.,  
Professor of Psychiatry, and Clinical Professor of Neurology
- ✓ ALBERT BURNLEY BIBB..... Professor of Architecture
- ✓ GEORGE MILLER STERNBERG, M.D., LL.D.,  
Professor of Preventive Medicine
- ✓ ASAPH HALL, JR., Ph.D..... Professor of Astronomy
- ✓ ARTHUR AUGUSTIN SNYDER, M.D..... Clinical Professor of Surgery
- ✓ ALBERT MANN, Ph.D..... Professor of Botany
- ✓ SHEPHERD IVORY FRANZ, Ph.D.,  
Professor of Physiology and Professor of Experimental Psychology
- ✓ CHARLES SIDNEY SMITH, Ph.D..... Professor of Greek and Latin
- ✓ WENDELL PHILLIPS STAFFORD, A.M., LL.D..... Professor of Law
- ✓ WILLIAM CLINE BORDEN, M.D.,  
Dean of the Medical School and Professor of Surgery
- ✓ CHARLES STANLEY WHITE, M.D.,  
Clinical Professor of Oral Surgery and Associate Professor of Surgery
- ✓ WILLIAM KENNEDY BUTLER, A.M., M.D..... Professor of Ophthalmology
- ✓ BUCKNER MAGILL RANDOLPH, M.D.,  
Professor of Materia Medica and Therapeutics
- ✓ LUTHER HALSEY REICHELDERFER, M.D..... Clinical Professor of Surgery
- ✓ JAMES DUDLEY MORGAN, A.B., M.D.,  
Clinical and Associate Professor of Medicine
- ✓ LOUIS ANATOLE LA GARDE, M.D..... Professor of Military Surgery
- ✓ WILLIAM CARL RUEDIGER, Ph.D.,  
Dean of Teachers College, and Professor of Educational Psychology
- ✓ ALFRED FRANCIS WILLIAM SCHMIDT, A.M.,  
Librarian and Professor of German
- ✓ WILLIS LUTHER MOORE, Sc.D., LL.D., Professor of Practical Meteorology
- ✓ WILLIAM JACKSON HUMPHREYS, C.E., Ph.D.,  
Professor of Meteorological Physics
- ✓ NOBLE PRICE BARNES, M.D.,  
Professor of Materia Medica and Therapeutics
- ✓ GIDEON BROWN MILLER, S.B., M.D.... Clinical Professor of Gynecology
- ✓ EDWARD ELLIOTT RICHARDSON, M.D., Ph.D.... Professor of Philosophy
- ✓ GEORGE WASHINGTON LITTLEHALES, C.E., Professor of Nautical Science



- OSCAR BENWOOD HUNTER, M.D., Professor of Histology and Embryology  
and Associate Professor of Anatomy
- EDWIN VIVIAN DUNSTAN, C.E.....Professor of Civil Engineering
- OSCAR ALEXANDER MECHLIN, C.E.....Professor of Civil Engineering
- EVERETT FRASER, A.B., LL.B.  
Dean of the Law School and Professor of Law
- W. SINCLAIR BOWEN, M.D.....Clinical Professor of Obstetrics
- OSCAR ADDISON MACK McKIMMIE, M.D.,  
Clinical Professor of Laryngology and Otology
- LOUIS MACKALL, M.D.....Clinical Professor of Medicine
- CARL LAWRENCE DAVIS, M.D.....Professor of Anatomy
- JOHN WILMER LATIMER, LL.B.....Professor of Law
- EDWARD RHODES STITT, A.B., M.D.  
Professor of Tropical Medicine
- ARTHUR BARTON CRANE, D.D.S.....Professor of Oral Surgery
- MERTON LEROY FERSON, A.M., LL.B.....Professor of Law
- RAY SMITH BASSLER, Ph.D.....Professor of Geology
- FRANK LEECH, M.D.....Clinical Professor of Medicine
- WILLIAM PHILLIPS CARR, M.D.....Clinical Professor of Surgery
- HURON WILLIS LAWSON, S.M., M.D.....Professor of Obstetrics
- FRANK ADELBERT HORNADAY, S.B., M.D.  
Professor of Physiological Chemistry
- JOSEPH DUERSON STOUT, A.M., M.D.  
Professor of Pharmacology and Associate Professor of Physiology
- HENRY KNOX CRAIG, M.D.....Librarian, Medical School Library  
and Curator of the Medical School Museum
- THOMAS CHARLES MARTIN, M.D.....Professor of Proctology
- GEORGE MILLER SHARP, D.D.S.....Professor of Orthodontia

## ASSOCIATE PROFESSORS

- JOHN ROBERT DE FARGES, D.D.S.....Associate Professor of Dental  
Metallurgy, Economics, Jurisprudence and Ethics
- CHARLES TURK BASSETT, D.D.S.,  
Associate Professor in Charge of Dental Infirmary
- ALLEN SCOTT WOLFE, D.D.S.,  
Associate Professor of Crown and Bridge Work
- CADMUS LINDEN ODOR, D.D.S.,  
Associate Professor of Operative Technics
- WILLIAM FRANCIS LAWRENCE, D.D.S.,  
Associate Professor of Prosthetic Technics
- D. DE WITT BEEKMAN, D.D.S.,  
Associate Professor of Materia Medica and Therapeutics
- EUGENE ROGER STONE, D.D.S.  
Associate Professor of Oral Surgery
- ISABEL KATHERINE BOGAN, M.D.  
Associate Professor of Bacteriology and Pathology

## ASSOCIATES

- ✓ DANIEL WEBSTER PRENTISS, M.D.....Clinical Associate in Surgery
- ✓ JOHN BENJAMIN NICHOLS, M.D.....Associate in Medicine and Dietetics
- ✓ EDGAR PASQUAL COPELAND, M.D.....Associate in Pediatrics
- ✓ HARRY HAMPTON DONNALLY, A.M., M.D.,  
Clinical Associate in Pediatrics
- ✓ WILLIAM FRANCIS MATTINGLY SOWERS, A.B., M.D., Associate in Surgery
- ✓ HENRY RANDALL ELLIOTT, M.D.....Associate in Physiology
- ✓ JOHN T. KELLEY, M.D.....Clinical Associate in Obstetrics
- ✓ J. LEWIS RIGGLES, M.D.....Associate in Gynecology
- ✓ WILLIAM CABELL MOORE, M.D.,.....Associate in Medicine
- ✓ CHARLES AUGUSTUS SIMPSON, M.D.....Associate in Dermatology
- ✓ COURSEN BAXTER CONKLIN, M.D.....Associate in Medicine

## ASSISTANT PROFESSORS

- ✓ NEVIL MONROE HOPKINS, Ph.D.....Assistant Professor of Chemistry
- ✓ EDWIN ALLSTON HILL, Ph.D.....Assistant Professor of Chemistry
- ✓ THOMAS MALCOLM PRICE, Ph.D.....Assistant Professor of Chemistry
- ✓ OTIS DOW SWETT, S.M., LL.M.....Assistant Professor of Chemistry
- ✓ CHARLES WARD MORTIMER, S.B., M.E.,  
Assistant Professor of Electrical Engineering
- ✓ HIRAM COLVER MCNEIL, Ph.D.,  
Assistant Professor of Physical Chemistry
- ✓ ROBERT RUSS KERN, A.B.,  
Assistant Professor of Economics and Sociology
- ✓ LEVI RUSSELL ALDEN, A.M.....Assistant Professor of History
- ✓ LESLIE CLEVELAND MCNEMAR, A.B.,  
Assistant Professor of International Law and Political Science
- ✓ ALBERT LEWIS HARRIS, B.S. in Arch.,  
Assistant Professor of Architecture
- ✓ RICHARD COBB, A.B.,  
Secretary of the University and Assistant Professor of English
- ✓ BEDFORD BROWN, S.B.....Assistant Professor of Architecture
- ✓ ARCHIBALD KING, A.M., LL.B.....Assistant Professor of Law
- ✓ JAMES LEWIS PARKS, JR., A.B., LL.B.....Assistant Professor of Law
- ✓ MORTON C. MOTT-SMITH, Ph.D.....Assistant Professor of Physics
- ✓ GEORGE MORTON CHURCHILL, Ph.D.....Assistant Professor of History
- ✓ NATHAN WASHINGTON DOUGHERTY, C.E., M.C.E.,  
Assistant Professor of Civil Engineering
- ✓ ERNST OTTO SCHREIBER, JR., A.B., LL.B.  
Assistant Professor of Law
- ✓ ROBERT WILBUR MORSE, S.B.  
Assistant Professor of Mechanical Engineering



## LECTURERS AND INSTRUCTORS

- EDWARD GRANT SEIBERT, M.D.,  
Instructor in Laryngology and Ophthalmology
- FREDERICK EUGENE FOWLE, JR., S.B.....Lecturer on Astro-Physics
- WILLARD STANTON SMALL, Ph.D.....Lecturer on Education
- WALTER HIBBARD MERRILL, M.D....Instructor in Electro-Therapeutics
- TRUMAN ABBE, M.D.....Clinical Associate in Surgery
- JOHN POTTS FILLEBROWN, M.D.....Clinical Instructor in Surgery
- ALFRED GEISES BUHRMAN.....Clerk of the Moot Court
- VIRGIL B. JACKSON, M.D.....Instructor in Gynecology
- EDMUND THOMAS MURDAUGH FRANKLIN, M.D....Instructor in Surgery
- WILLIAM J. FRENCH, M.D.....Instructor in Materia Medica
- CHARLES WILBUR HYDE, M.D., Instructor in Medicine and Anaesthesia
- JOHN WINSLOW TAYLOR, D.D.S.....Instructor in Prosthetic Technics  
and Demonstrator in the Dental Infirmary
- ADAM KEMBLE, M.D.....Instructor in Genito-Urinary Surgery
- HOMER GIFFORD FULLER, M.D....Instructor in Genito-Urinary Surgery
- CHARLES GARDNER SHOEMAKER, D.D.S.,  
Instructor in Operative Technics
- HENRY CISSEL YOUNG, D.D.S....Instructor in Prosthetic Technics and  
Demonstrator in the Dental Infirmary
- HAYNER HASKELL GORDON, Ph.D.,  
Instructor in Mechanical Engineering
- CLINE N. CHIPMAN, M.D.....Instructor in Anaesthesia
- GEORGE HENRY SCHWINN, M.D.,  
Instructor in Psychiatry and Neurology
- MARK RITTENHOUSE WOODWARD, E.E.,  
Instructor in Electrical Engineering
- HARRY HYLAND KERR, M.D.....Instructor in Operative Surgery
- HARRY GRANT HODGKINS, A.B.....Instructor in Mathematics
- WILLIAM JOHNSTON MALLORY, M.D...Instructor in Medicine
- CAESARE LOUIS CONSTANTINI, D.D.S.,  
In Charge of Clinical Instruction in Dentistry
- ARTHUR DURDAN WEAKLEY, D.D.S.....Clinical Instructor in Dentistry
- THOMAS LOCKE RUST, D.D.S.....Clinical Instructor in Dentistry
- GEORGE BERTRAM ROPER MACDONALD, D.D.S.,  
Clinical Instructor in Dentistry
- WILLIAM CARL KILLINGER, D.D.S....Clinical Instructor in Orthodontia
- Z. WILBUR ALDERMAN, D.D.S.,  
Clinical Instructor in Electro-Therapeutics
- ROBERT EDWIN LAYTON, D.D.S.....Clinical Instructor in Dentistry
- JULIA THECKLA MACMILLAN, S.M.....Instructor in Zoology
- ALBERT PERKINS TIBBETTS, M.D...Clinical Instructor in Laryngology
- CHARLES EDWARD VAN ORSTRAND, S.M.....Lecturer on Mechanics
- HARVEY LINCOLN CURTIS, Ph.D.....Lecturer on Physics
- ELIJAH WHITE TITUS, Phar.D., M.D.....Instructor in Obstetrics

- WILLIAM CABELL VAN VLECK, A.B., LL.B.  
Secretary of the Law School and Instructor in Law
- MARIETTA STOCKARD, Lecturer on the Teaching of Children's Literature
- DANIEL LeRAY BORDEN, M.D.  
Instructor in Surgery and Clinical Gynecology
- ALBERT ELWOOD PAGAN, M.D.  
Clinical Instructor in Gynecology and Obstetrics
- ARTHUR DEERIN CALL, A.M.,.....Lecturer on Elementary Education
- JAMES WALTER BERNHARD, D.D.S. Instructor in Crown and Bridge Work
- GEORGE TRAVER HARRINGTON, B.S. in Agri., B.S. in Chem.,  
Instructor in Botany
- WILLIAM HENRY HUNTINGTON, M.D.,  
Instructor in Laryngology and Otology
- J. IRVING SLOAT, M.D.,.....Instructor in Surgery
- EDWARD CULLOM, A.M.,.....Instructor in French
- JANVIER W. LINDSEY, A.B., M.D.,  
Instructor in Physical Diagnosis and Surgery
- LOYD HALL SUTTON, S.B., LL.B.,.....Instructor in Patent Law
- EDWIN HENRY INGERSOLL, S.M.,.....Instructor in Chemistry
- WALTON COLCORD JOHN, A.B.,.....Instructor in Spanish
- BERNARD GLUECK, M.D.,.....Instructor in Psychiatry
- REBECCA SHERMAN ASHLEY ,.....Instructor in the History of Art
- EDGAR LEE HEWETT, D.Soc.,.....Lecturer on Archaeology
- MEADE BOLTON ,.....Instructor in Architecture
- LEONARD SMITH DOTEN, B.S. in C.E.,.....Instructor in Civil Engineering
- WALTER LOWELL HAGAN, D.D.S.,.....Instructor in Operative Technics
- HARRY SAMUEL LEWIS, M.D.,.....Clinical Instructor in Surgery
- THOMAS P. MILLER, JR., M.D., Instructor in Bacteriology and Pathology
- FRANK ROY RUTTER, Ph.D.,.....Lecturer on Commerce
- DWIGHT GORDON SMITH, M.D.,.....Clinical Instructor in Medicine
- JOHN HUNTER SELBY, M.D.,.....Instructor in Radiography
- EDGAR SNOWDEN, M.D.,.....Clinical Instructor in Medicine
- EDITH BLINSTON LOWE, A.M.,.....Assistant Librarian
- ROBERT S. TRIMBLE, M.D.,.....Clinical Instructor in Medicine
- FRANK ANDREWS, A.B.,.....Lecturer on Transportation
- WILLIAM BROWNE CARR, M.D.,.....Instructor in Morbid Anatomy
- HARRY A. BISHOP, M.D.,.....Clinical Instructor in Neurology
- OLIVER CLEMENCE COX, M.D.,.....Instructor in Minor Surgery
- WILLIAM P. REEVES, M.D.,.....Clinical Instructor in Surgery
- WILLIAM B. MARBURY, M.D.,.....Instructor in Surgery
- ALEXANDER WETMORE, A.B.,.....Instructor in Zoology
- SACKS BRICKER, M.D.,.....Clinical Instructor in Obstetrics
- GEORGE VON PULLINGER DAVIS, M.D.,.....Instructor in Materia Medica
- WILLIAM FLETCHER SMITH, A.B.,.....Instructor in Romance Languages
- CHARLES W. RICH, D.D.S.,.....Instructor in Prosthetic Technics
- JOHN PRESTON MARSTELLER, D.D.S. Instructor in Prosthetic Technics
- ORVILLE NEWTON FANSLER, D.D.S., Instructor in Prosthetic Technics



JASPER N. ROBERTS, D.D.S. . . . . Instructor in Prosthetic Technics  
 EDWARD EARL GOLDEN, D.D.S. . . . . Instructor in Crown and Bridge Work  
 HENRY MERLE SPILLAN, D.D.S. . . . . Instructor in Crown and Bridge Work  
 SAMUEL HARRISON GREENE, M.D.

Clinical Instructor in Laryngology and Otology

WILLIAM HOUSTON LITTLEPAGE, M.D. . . . . Clinical Instructor in Medicine  
 JAMES ROBERT SCOTT, M.D. . . . . Instructor in Bacteriology and Pathology  
 ARTHUR ALEXANDER EISENBERG, A.B., M.D.,

Instructor in Bacteriology and Pathology

LOUIS BERNARD CASTELL, M.D., Phar. D. . . . . Instructor in Pharmacology

#### ASSISTANTS AND DEMONSTRATORS

HENRY ALBERT LEPPER, B.S. in Chem. . . . . Assistant in Chemistry  
 GERTRUDE RICHARDSON BRIGHAM, A.M., . . . . . Assistant in English  
 BOYCE RICHARDSON BOLTON,

Student Assistant in Histology and Embryology

THERESA KARGER. . . . . Student Assistant in Chemistry

SAMUEL DANEMANN, D.D.S., . . . . . Demonstrator in the Dental Infirmary

EDWARD WILLIAM MULLIGAN. . . . . Student Assistant in Anatomy

GEORGE WASHINGTON PHILLIPS. . . . . Student Assistant in Chemistry

HARRIET UNDERWOOD, A.B. . . . . Laboratory Assistant in Psychology

VIVIAN ROBEY. . . . . Student Assistant in Chemistry

BOYCE RICHARDSON BOLTON

Student Assistant in Anatomy and Histology

WALLACE IRVING ATHERTON

Student Assistant Librarian in the Law School

JAMES CUNNINGHAM ROGERS

Student Assistant Librarian in the Law School

SIDNEY CHARLES COUSINS. . . . . Student Assistant in Histology

JOHN MORRISS LADD. . . . . Student Assistant in Clinical Chemistry

META NEUMANN. . . . . Student Assistant in the Arts and Sciences Library

DORRELL GHIO DICKERSON. . . . . Student Assistant in Physiology

JAMES EDWIN HOUGHTON

Student Assistant in Bacteriology and Pathology

ROBERT LINDSEY MYERS, Student Assistant in Anatomy and Histology

FRANCIS GEORGE SPEIDEL

Student Assistant in Bacteriology and Pathology

EDWARD JOHN COPPING. . . . . Student Assistant in the Dental Infirmary

FLORA HULL. . . . . Student Assistant in the Arts and Sciences Library

EDWARD LEWIS. . . . . Student Assistant in Chemistry

EDWIN FRANKLIN ALBERTSWORTH. . . . . Student Assistant in History

ELMER LOUIS KAYSER. . . . . Student Assistant in History

JOSE ROSADO VILLAMIL. . . . . Student Assistant in Chemistry

WILLIAM LEOPOLD FRIDRICH PAHL. . . . . Student Assistant in Chemistry

JAMES HAROLD COLLINS. . . . . Student Assistant in Pharmacology

RUTH VESTA POPE, A.B. . . . . Teacher in the Demonstration School

MARY MABEL STEWART, A.B.....Teacher in the Demonstration School  
CLAUDE M. POSTLEWAIT.....Student Assistant in Dental Chemistry  
JESSE THOMAS MANN,  
Student Assistant in Physiology and Pharmacology

## EDUCATIONAL ORGANIZATION

The University comprises:

## THE DEPARTMENT OF ARTS AND SCIENCES

School of Graduate Studies.  
Columbian College.  
College of Engineering.  
Teachers College.

## THE PROFESSIONAL DEPARTMENTS

Law School.  
Medical School.  
Dental School.

## THE ASSOCIATED COLLEGES

National College of Pharmacy.  
College of Veterinary Medicine.

## ANNUAL COMMENCEMENT

The Annual Commencement is held on the Wednesday following the Wednesday nearest the first day of June. Students who have satisfied the requirements for degrees subsequent to the June Commencement may be awarded degrees at the Winter Convocation on February 22.

## THE UNIVERSITY LIBRARY

The University Library comprises the Library of the Department of Arts and Sciences, the Law Library, and the Medical Library. It contains 49,000 volumes.

In addition to its general collections the Library of the Department of Arts and Sciences contains the library of the late Professor Richard Heinzel, of the University of Vienna, containing 7200 books and pamphlets in Germanic philology and literature, and cognate branches; the library of the late Professor Curt Wachsmuth, of the University of Leipzig, containing 7900 books and pamphlets in Greek and Roman



literature, archaeology, and history; the Mount Vernon Alcove containing 4000 volumes in political history, international law, and the social sciences; and the divisional collections in engineering and mechanic arts and in education. It is open from 9 a.m. to 6.40 p.m.

The Law Library, containing about 6700 volumes, is open from 8.30 a.m. to 10 p.m.

The Medical Library, containing about 3000 volumes, is open from 9 a.m. to 9 p.m.

#### PRIVILEGES IN GOVERNMENTAL INSTITUTIONS OPEN TO UNIVERSITY STUDENTS

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:*

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

PART II  
DEPARTMENTS OF THE UNIVERSITY





## DEPARTMENT OF ART AND SCIENCES

### FACULTY

- CHARLES HERBERT STOCKTON, LL.D.... PRESIDENT OF THE UNIVERSITY  
 HOWARD LINCOLN HODGKINS, Ph.D..... Dean, Dean of the College of  
 Engineering, and Professor of Mathematics  
 HERMANN SCHOENFELD, Ph.D., LL.D..... Professor of German  
 CHARLES EDWARD MUNROE, Ph.D., LL.D.,  
 Dean of the School of Graduate Studies and Professor of Chemistry  
 GEORGE PERKINS MERRILL, Ph.D.,  
 Professor of Geology and Mineralogy  
 FRANK WIGGLESWORTH CLARKE, Sc.D.... Professor of Mineral Chemistry  
 WILLIAM ALLEN WILBUR, A.M.,  
 Dean of Columbian College and Professor of English  
 CHARLES CLINTON SWISHER, Ph.D., LL.D..... Professor of History  
 MITCHELL CARROLL, Ph.D.,  
 Professor of Archaeology and the History of Art  
 PAUL BARTSCH, Ph.D..... Professor of Zoology  
 GEORGE NEELY HENNING, A.M..... Professor of Romance Languages  
 ALBERT BURNLEY BIBB... Professor of Architecture  
 GEORGE MILLER STERNBERG, M.D., LL.D.,  
 Professor of Preventive Medicine  
 ASAPH HALL, JR., Ph.D..... Professor of Astronomy  
 ALBERT MANN, Ph.D..... Professor of Botany  
 SHEPHERD IVORY FRANZ, Ph.D. Professor of Experimental Psychology  
 CHARLES SIDNEY SMITH, Ph.D..... Professor of Greek and Latin  
 WILLIAM CARL RUEDIGER, Ph.D.,  
 Dean of Teachers College, and Professor of Educational Psychology  
 ALFRED FRANCIS WILLIAM SCHMIDT, A.M.... Professor of German  
 WILLIS LUTHER MOORE, Sc.D., LL.D.,  
 Professor of Practical Meteorology  
 WILLIAM JACKSON HUMPHREYS, C.E., Ph.D.,  
 Professor of Meteorological Physics  
 EDWARD ELLIOTT RICHARDSON, M.D., Ph.D.... Professor of Philosophy  
 GEORGE WASHINGTON LITTLEHALES, C.E.,  
 Professor of Nautical Science  
 EDWIN VIVIAN DUNSTAN, C.E... Professor of Civil Engineering  
 OSCAR ALEXANDER MECHLIN, C.E..... Professor of Civil Engineering  
 RAY SMITH BASSLER, Ph.D..... Professor of Geology  
 NEVIL MONROE HOPKINS, Ph.D..... Assistant Professor of Chemistry  
 EDWIN ALLSTON HILL, Ph.D..... Assistant Professor of Chemistry



THOMAS MALCOLM PRICE, Ph.D. . . . Assistant Professor of Chemistry  
 OTIS DOW SWETT, S.M, LL.M. . . . Assistant Professor of Chemistry  
 CHARLES WARD MORTIMER, S.B., M.E.,

Assistant Professor of Electrical Engineering  
 HIRAM COLVER McNEIL, Ph.D.,  
 Assistant Professor of Physical Chemistry

ROBERT RUSS KERN, A.B.,  
 Assistant Professor of Economics and Sociology  
 LEVI RUSSELL ALDEN, A.M. . . . Assistant Professor of History  
 LESLIE CLEVELAND McNEMAR, A.B.,

Assistant Professor of International Law and Political Science  
 ALBERT LEWIS HARRIS, B.S. in Arch., Assistant Professor of Architecture  
 RICHARD COBB, A.B. . . . Assistant Professor of English  
 BEDFORD BROWN, S.B. . . . Assistant Professor of Architecture  
 MORTON C. MOTT-SMITH, Ph.D. . . . Assistant Professor of Physics  
 GEORGE MORELL CHURCHILL, Ph.D. . . . Assistant Professor of History  
 NATHAN WASHINGTON DOUGHERTY, C.E., M.C.E.

Assistant Professor of Civil Engineering  
 ROBERT WILBUR MORSE, S.B.

Assistant Professor of Mechanical Engineering  
 FREDERICK EUGENE FOWLE, JR., S.B. . . . Lecturer on Astro-Physics  
 WILLARD STANTON SMALL, Ph.D. . . . Lecturer on Education  
 HAYNER HASKELL GORDON, Ph.D., Instructor in Mechanical Engineering  
 MARK RITTENHOUSE WOODWARD, E.E.,

Instructor in Electrical Engineering  
 HARRY GRANT HODGKINS, A.B. . . . Instructor in Mathematics  
 JULIA THECKLA MACMILLAN, S.M. . . . Instructor in Zoology  
 CHARLES EDWIN VAN ORSTRAND, S.M. . . . Lecturer on Mechanics  
 HARVEY LINCOLN CURTIS, Ph.D. . . . Lecturer on Physics  
 MARIETTA STOCKARD, A.B.

Lecturer on the Teaching of Children's Literature  
 ARTHUR DEERIN CALL, A.M. . . . Lecturer on Elementary Education  
 GEORGE TRAVER HARRINGTON, B.S. in Agr., B.S. in Chem.,

Instructor in Botany  
 EDWARD CULLOM, A.M. . . . Instructor in French  
 EDWIN HENRY INGERSOLL, S.M. . . . Instructor in Chemistry  
 WALTON COLCORD JOHN, A.B. . . . Instructor in Spanish  
 REBECCA SHERMAN ASHLEY, A.B. . . . Instructor in the History of Art  
 EDGAR L. HEWETT, D.Soc. . . . Lecturer on Archaeology  
 MEADE BOLTON. . . . Instructor in Architecture  
 LEONARD SMITH DOTEN, B.S. in C.E.,

Instructor in Civil Engineering  
 FRANK RAY RUTTER, Ph.D. . . . Lecturer on Commerce  
 FRANK ANDREWS, A.B. . . . Lecturer on Transportation  
 ALEXANDER WETMORE, A.B. . . . Instructor in Zoology  
 WILLIAM FLETCHER SMITH, A.B. . . . Instructor in Romance Languages

**Faculty of the School of Graduate Studies**

President Stockton, Dean Munroe, Professors Hodgkins, Schoenfeld, Merrill, Clarke, Wilbur, Swisher, Carroll, Bartsch, Henning, Sternberg, Mann, Franz, Smith, Price, Ruediger, Schmidt, Moore, Humphreys, Richardson, Littlehales, Dunstan, Mechlin, Bassler, Assistant Professors Hopkins, Hill, Mortimer, McNeil, Kern, Alden, McNemar, Mott-Smith, Messrs. Van Orstrand, Curtis.

**Faculty of Columbian College**

President Stockton, Dean Wilbur, Professors Hodgkins, Schoenfeld, Munroe, Merrill, Swisher, Carroll, Bartsch, Henning, Smith, Ruediger, Schmidt, Richardson, Bassler; Assistant Professors Swett, Kern, Cobb, McNemar, Mott-Smith; Mr. Woodward, Miss Macmillan, Messrs. Harrington, John, Cullom, Rutter, Wetmore.

**Faculty of College of Engineering**

President Stockton, Dean Hodgkins, Professors Schoenfeld, Munroe, Merrill, Wilbur, Henning, Schmidt, Bibb, Dunstan; Assistant Professors Swett, Mortimer, Harris, Brown, Dougherty, Morse, Mott-Smith; Messrs. Gordon, Woodward, Doten.

**Faculty of Teachers College**

President Stockton, Dean Ruediger, Professors Hodgkins, Schoenfeld, Munroe, Wilbur, Swisher, Bartsch, Henning, Smith, Schmidt, Richardson; Assistant Professors Kern, Cobb, McNemar, Mott-Smith; Messrs. Small, Call; Miss Stockard.



## SCHOOL OF GRADUATE STUDIES

### HIGHER DEGREES

The higher degrees conferred in course by the University in this Division of the Department of Arts and Sciences are Master of Arts (A.M.), Master of Science (S.M.), Civil Engineer (C.E.), Electrical Engineer (E.E.), Mechanical Engineer (M.E.), and Doctor of Philosophy (Ph.D.).

### ADMISSION

Candidates for admission to courses for higher degrees must make application to the Dean of the School of Graduate Studies on application blanks, which may be obtained of him or of the Secretary of the University. Candidates must present the diplomas they hold, or certificates that they have received such diplomas, together with catalogues of the institutions from which they hold their degrees and certificates of their course of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

### DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE

To be admitted to candidacy for the Master's degree a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. Moreover, the course of study pursued must have been such as to qualify the candidate for pursuing the subjects chosen for the Master's or other higher degree sought. In seeking admission the applicant must state whether he desires to obtain the Specialist degree or the Liberal Culture degree.

The Specialist degree is designed for students who propose to proceed toward the Doctor of Philosophy degree. Such candidates are required to complete one major and two minor subjects selected from properly correlated and approved University subjects and to present a satisfactory thesis, all amounting in value to not less than fifteen units of work. Only one of the minor topics may be selected from the University subject which includes the major topic. Work for which this degree has been awarded may be credited as one year of work toward the Doctor of Philosophy degree, provided that it be in the same field of work.

The Liberal Culture degree is designed for students who do not intend to specialize in their work. Such candidates are required to complete a course of study amounting to not less than fifteen units of work distributed among three approved University subjects, not more than nine

hours of which shall be given to any one subject. The candidate must also present a thesis in the field to which the major subject belongs which shall count for not more than three of the required fifteen units.

A candidate for a Master's degree must pass at least one full year in residence and study at this University, and no work done in satisfaction of the requirements for the Bachelor's degree shall be counted again for a higher degree.

#### HIGHER DEGREES IN ENGINEERING

To be admitted to candidacy for higher degrees in Engineering a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree in Engineering, and of such a character as to fit him to pursue to advantage the study of advanced engineering topics. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. Moreover, the courses of study pursued for the Bachelor's degree must be approved by the Faculty as qualifying the candidate for pursuing the chosen line of study for the degree sought.

A candidate for a degree in Engineering shall pass at least one full year of residence and study at this University, sustain satisfactory examinations on the studies pursued, and present an acceptable thesis, together with a bibliography which shall count for not more than three units. Three approved full courses totaling with the thesis not less than fifteen units is the minimum required as constituting a full year's work.

#### DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is conferred upon a student who has pursued specialized courses in University Subjects, has engaged in research under university auspices for a period of not less than three years, has submitted an acceptable thesis, and has met all the requirements prescribed. The degree is given for high attainments and proved ability to do research work in some special branch of knowledge, as determined by the various tests applied.

Before a student can be admitted to candidacy for this degree he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree, and of such a character as to fit him to pursue to advantage researches in the field chosen for his graduate work. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. The applicant may be credited with graduate work done at other universities, provided such work is shown to be of grade similar to that required here, but one year, preferably the last, must be spent in residence at this University and the other requirements of the degree as prescribed must be fulfilled.



The candidate for the Doctor's degree shall offer three topics from the University Subjects—one major and two collateral minor studies, one of which minors may be in the subject which includes the major topic. These must be pursued under the guidance of a committee consisting of the professors in charge of the University Subjects in which the studies are pursued, with the professor in the major subject as chairman. This committee will determine his division of time, study, and research among the major and minor topics, but in general the major topic should be pursued during the whole time devoted to graduate work, and each minor topic during at least one year. The candidate shall pass satisfactory examinations upon the three subjects selected. He must satisfy the Faculty that he can read understandingly in the original, French and German works pertaining to his special field. In order to graduate the candidate must possess a broad acquaintance with his major subject and he must present a thesis upon some topic approved by the professor in charge of his major subject, which shall be a contribution to knowledge and which shall be accompanied by an adequate bibliography.

#### EXAMINATIONS

Candidates must pass examinations upon all their topics. The examinations upon the minor topics may be taken at the close of the respective years in which these topics are completed, or later, at the discretion of the examiner. The final examination on the major topic shall cover the candidate's entire university work, and shall be given when the professor of that subject is satisfied that the student has taken sufficient work to warrant such an examination being taken. If a candidate has satisfactorily passed his final examination, he may be permitted to complete his thesis away from the University.

#### DEFENSE OF THE THESIS

Before a candidate can be recommended to the Board of Trustees for the Doctor of Philosophy degree, he must have successfully defended his thesis in public before a Board of Experts not officially connected with the University. Before the candidate can be permitted to undertake the defense of his thesis, the thesis must have been favorably reported on and recommended for defense by the professor having supervision over the candidate's major topic, and by a co-referee appointed from the Faculty of Graduate Studies.

The subjects from which the candidate's selection may be made, as the Faculty may determine in each case, are as follows:

Applied Mathematics, Archaeology, Architecture, Astronomy, Astro-Physics, Bacteriology, Botany, Chemistry, Economics, Education, Civil Engineering, Electrical Engineering, Hydraulic Engineering, Mechanical Engineering, English, Ethics, Geology and Mineralogy, Germanic Languages and Literature, Greek Language and Literature, Histology and Embryology, History, History of Art, International Law

and Diplomacy, Latin Language and Literature, Law, Mathematics, Meteorology, Nautical Science, Pathology, Philosophy, Physics, Physiology and Pharmacology, Political Sciences, Preventive Medicine, Psychology, Romance Language and Literature, Sociology, Zoology.

#### REGULATIONS REGARDING THESES

All theses in their final form must be presented to the Dean on the dates announced in the University Calendar. They must be typewritten on official thesis paper, which may be obtained from the Treasurer of the University. The thesis will be presented by the Dean to the Chairman of the Committee on the candidate and the co-referee appointed from and by the Faculty for examination as to its merits when, on a favorable report by them, it may be defended in the Public Disputation. After their acceptance, theses, with their accompanying drawings, are the property of the University, and must be deposited in the University archives, but the authors of them are permitted to make copies. The candidate for the degree of Doctor of Philosophy shall arrange, to the satisfaction of the Faculty, to print his thesis under the supervision of the professor in charge of his major subject, within one year after the degree is granted, and he shall present one hundred copies to the University, to be distributed among institutions of learning.

#### DOCTORATE DISPUTATIONS

The Twenty-fifth Doctorate Disputation was held publicly in University Hall, February 9, 1914. The thesis that was successfully defended, the candidate and the members of the board of experts were as follows:

*Thesis:* The Biota of Ridgeway Bog, Wisconsin: A Study in Ecology and Distribution. By HARTLEY HARRAD THOMPSON JACKSON, B.S., 1904, Milton College, A.M., 1909, University of Wisconsin. Before CHARLES A. DAVIS, Ph.D., Fuel Technologist, Bureau of Mines; CHARLES A. RICHMOND, M.D., Curator Division of Birds, U. S. National Museum; EDWARD A. PREBLE, Assistant Biologist, Biological Survey. Professor PAUL BARTSCH, Ph.D., presiding.

The record of the Twenty-sixth Doctorate Disputation, held publicly on May 18, 1914, was as follows:

*Thesis:* An Investigation of the Rates of the Wildwood Water Works Company. By PHILANDER BETTS, B.S., 1891, M.S., 1895, Rutgers College, E.E., 1903, The Columbian University. Before Lieutenant-Colonel CHESTER A. HARDING, Eng. Corps., U. S. A., Engineer Commissioner, District of Columbia; CHARLES A. PROUTY, A.B., Director of Valuation, Interstate Commerce Commission; FRANK J. WARNE, Ph.D., Economist. HOWARD LINCOLN HODGKINS, A.M., Ph.D., Dean, Department of Arts and Sciences, presiding.



*Thesis:* The Policy of Internal Improvements in American History; 1810-1830. By GEORGE MORTON CHURCHILL, A.B., 1896, Boston University; A.M., 1909, The George Washington University. Before HENRY L. ABBOT, LL.D., Brigadier General Engineer Corps, U. S. A., retired; S. N. D. NORTH, A.M., LL.D., Carnegie Endowment for International Peace; HENDRIK WILLEM VAN LOON, A.B., Ph.D., Historian. CHARLES HERBERT STOCKTON, LL.D., Rear Admiral, U. S. N. (retired), President of the George Washington University, presiding.

*Thesis:* The Beginnings of the German Element in York County, Pennsylvania. By ABDEL ROSS WENTZ, A.B., 1904, A.M., 1907, Pennsylvania College, B.D., 1907, Gettysburg Theological Seminary. Before GEORGE F. BOWEMAN, A.B., LL.D., Librarian, Public Library; FRANK WARREN HACKETT, A.B., A.M., ex-Assistant Secretary of the Navy; Rev. LUTHER HESS WARING, A.B., A.M., Ph.D., Pastor, Evangelical Lutheran Church of Georgetown. LEVI RUSSELL ALDEN, A.B., A.M., LL.B., Assistant Professor of History, presiding.

The record of the Twenty-seventh Doctorate Disputation, held publicly on October 12, 1914, was as follows:

*Thesis:* Contribution to a Thorough Knowledge of the Muscoid Flies; On the female-reproductive and early-stage characters as indicating phylogeny and a basis for taxonomy, together with a consideration of host relations, general bionomics and distribution. By CHARLES HENRY TYLER TOWNSEND, B.S., 1908, The George Washington University. Before L. O. HOWARD, M.D., Ph.D., LL.D., Chief Bureau of Entomology, Department of Agriculture; C. L. MARLATT, B.S., M.S., Assistant Chief Bureau of Entomology, Department of Agriculture; A. D. HOPKINS, Ph.D., Entomological Assistant in charge Forest Insect Investigations, Bureau of Entomology, Department of Agriculture. PAUL BARTSCH, M.S., Ph.D., Professor of Zoology, presiding.

The record of the Twenty-eighth Doctorate Disputation, held publicly on February 8, 1915, was as follows:

*Thesis:* Nematodes of Rodents. By MAURICE CROWTHER HALL, S.B., 1905, Colorado College; A.M., 1906, University of Nebraska. Before JAMES E. BENEDICT, Ph.D., Chief of Exhibits of Biology, U. S. National Museum; NATHAN A. COBB, Ph.D., Agricultural Technologist, Bureau of Plant Industry, Department of Agriculture; BRAYTON H. RANSOM, Ph.D., Chief, Division of Zoology, B.A.I., Department of Agriculture. CH. WARDELL STILES, Ph.D., Professor of Zoology, U. S. Public Health Service, presiding.

## THE COLLEGES

The College session of 1915-16 begins Wednesday, September 29, 1915.  
The Colleges are open to men and women.

### ADMISSION

Every applicant for admission is required to present a testimonial of good character and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools that present evidence of affording adequate preparation in the required subjects. The Secretary of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificates of the College Entrance Examination Board will be accepted.

*The requirement for admission is a four-year high-school course, or its equivalent, amounting to fifteen "units." For prescribed studies see the specifications of each college.*

A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work.

### ENTRANCE EXAMINATIONS

The regular examinations for admission are held in May.

The following is the schedule for 1915:

#### Monday, May 24, 1915

Elementary Latin.....	9.00-11.00
Plane Geometry.....	11.00- 1.00
Physics.....	2.00- 4.00
Greek.....	2.00- 5.00

#### Tuesday, May 25

Elementary Algebra.....	9.00-11.00
Elementary French.....	11.00- 1.00
Elementary German.....	2.00- 4.00
Ancient History.....	4.00- 6.00



## Wednesday, May 26

Plane Trigonometry.....	9.00-11.00
Advanced French, Advanced German.....	11.00- 1.00
English.....	2.00- 5.00

## Thursday, May 27

Advanced Algebra.....	9.00-11.00
Solid Geometry.....	11.00- 1.00
Chemistry; Advanced Latin.....	2.00- 4.00

Subjects offered for admission, but not named in the schedule of examinations, will be arranged for as occasion arises.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

Candidates from the Washington high schools for the Kendall and the University Scholarships will be examined on nine and one-half units. These units upon which the examination will be given are the following: the specified subjects—English (three units), Mathematics (two and one-half units), and one other language (two units); the remaining two units will be in language, history, mathematics, physics, chemistry, biology—as the candidate shall elect. The remainder of the fifteen units must be certified from the high schools.

## DEFINITION OF REQUIREMENTS

## English

The requirement in English is that recommended by the National Conference on Uniform Entrance Requirements in English.

*Requirement for 1915-1919*

The study of English in school has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

## Grammar and Composition

*One and one-half units*

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend

throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

#### Literature

##### *One and one-half units*

The second object is sought by means of two lists of books, headed respectively *READING* and *STUDY*, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

*A. Reading*—The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group I.

#### GROUP I—CLASSICS IN TRANSLATION

The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther,

The Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII.

The Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI.

The Aeneid.

The Odyssey, Iliad and Aeneid should be read in English translations of recognized literary excellence.

For any selection from this group a selection from any other group may be substituted.



## GROUP II—SHAKESPEARE

Midsummer Night's Dream,	Richard II,	} If not chosen for study under B.
Merchant of Venice,	Richard III,	
As You Like It,	Henry V,	
Twelfth Night,	Coriolanus	
The Tempest,	Julius Caesar,	
Romeo and Juliet,	Macbeth,	
King John,	Hamlet.	

## GROUP III—PROSE FICTION

Malory: *Morte d'Arthur* (about 100 pages).  
 Bunyan: *Pilgrim's Progress*, Part I.  
 Swift: *Gulliver's Travels* (voyages to Lilliput and to Brobdingnag).  
 Defoe: *Robinson Crusoe*, Part I.  
 Goldsmith: *Vicar of Wakefield*.  
 Frances Burney: *Evelina*.  
 Scott's Novels: any one.  
 Jane Austen's Novels: any one.  
 Maria Edgeworth: *Castle Rackrent*, or *The Absentee*.  
 Dicken's Novels: any one.  
 Thackeray's Novels: any one.  
 George Eliot's Novels: any one.  
 Mrs. Gaskell: *Cranford*.  
 Kingsley: *Westward Ho!* or *Hereward, the Wake*.  
 Reade: *The Cloister and the Hearth*.  
 Blackmore: *Lorna Doone*.  
 Hughes: *Tom Brown's Schooldays*.  
 Stevenson's *Treasure Island*, or *Kidnapped*, or *Master of Ballantrae*.  
 Cooper's Novels: any one.  
 Poe: *Selected Tales*.  
 Hawthorne: *The House of the Seven Gables*, or *Twice Told Tales*, or  
     *Mosses from an Old Manse*.  
 A collection of Short Stories by various standard writers.

## GROUP IV—ESSAYS, BIOGRAPHY, ETC.

Addison and Steele: *The Sir Roger de Coverley Papers*, or *Selections from the Tatler and Spectator* (about 200 pages).  
 Boswell: *Selections from the Life of Johnson* (about 200 pages).  
 Franklin: *Autobiography*.  
 Irving: *Selections from the Sketch Book* (about 200 pages), or *Life of Goldsmith*.  
 Southey: *Life of Nelson*.  
 Lamb: *Selections from the Essays of Elia* (about 100 pages).  
 Lockhart: *Selections from the Life of Scott* (about 200 pages).  
 Thackeray: *Lectures on Swift, Addison, and Steele in the English Humorists*.

Macaulay: Any one of the following essays: Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederic the Great, Madame d'Arblay.

Trevelyan: Selections from the Life of Macaulay (about 200 pages).

Ruskin: *Sesame and Lilies*, or Selections (about 150 pages).

Dana: *Two Years before the Mast*.

Lincoln: Selections, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, the Letter to Horace Greeley; together with a brief memoir or estimate of Lincoln.

Parkman: *The Oregon Trail*.

Thoreau: *Walden*.

Lowell: *Selected Essays* (about 150 pages).

Holmes: *The Autocrat of the Breakfast Table*.

Stevenson: *An Inland Voyage and Travels with a Donkey*.

Huxley: *Autobiography and selections from Lay Sermons*, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk.

A collection of Essays by Bacon, Lamb, DeQuincey, Hazlitt, Emerson, and later writers.

A collection of Letters by various standard writers.

#### GROUP V—POETRY

Palgrave's *Golden Treasury* (First Series): Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns.

Palgrave's *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study under B).

Goldsmith: *The Traveller and The Deserted Village*.

Pope: *The Rape of the Lock*.

A collection of English and Scottish Ballads, as, for example, some Robin Hood ballads, *The Battle of Otterburn*, *King Estmere*, *Young Beicham*, *Bewick and Grahame*, *Sir Patrick Spens*, and a selection from later ballads.

Coleridge: *The Ancient Mariner*, *Christabel*, and *Kubla Khan*.

Byron: *Childe Harold*, Canto III or IV, and *The Prisoner of Chillon*.

Scott: *The Lady of the Lake*, or *Marmion*.

Macaulay: *The Lays of Ancient Rome*, *The Battle of Naseby*, *The Armada*, *Ivry*.

#### Examination

However accurate in subject matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling or other essentials of good usage.

The examination will be divided into two parts:



1. *Grammar and Composition*

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relations of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English, which one should know in distinction from current errors. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps eight or ten, from which the candidate may make his own selections. He will not be expected to write more than four hundred words per hour.

2. *Literature*

The examination in literature will include:

A. General questions designed to test such a knowledge and appreciation of literature as may be gained by fulfilling the requirements defined above under A. *Reading*. The candidate will be required to submit a list of the books read in preparation for the examination, certified by the principal of the school in which he was prepared; but the books named in this list will not be made the basis of detailed questions.

Tennyson: *The Princess*, or Gareth and Lynette, *Lancelot and Elaine*, and *The Passing of Arthur*.

Browning: *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*, *The Italian in England*, *The Patriot*, *The Pied Piper*, "*De Gustibus*"—, *Instans Tyrannus*.

Arnold: *Sohrab and Rustum*, and *The Forsaken Merman*.

Selections from *American Poetry*, with special attention to Poe, Lowell, Longfellow, and Whittier.

B. *Study*—This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. The books provided for study are arranged in four groups, from each of which one selection is to be made.

## GROUP I—DRAMA

Shakespeare: *Julius Caesar*, or *Macbeth*, or *Hamlet*.

## GROUP II—POETRY

Milton: *L'Allegro*, *Il Penseroso*, and either *Comus* or *Lycidas*.

Tennyson: *The Coming of Arthur*, *The Holy Grail*, and *The Passing of Arthur*.

The selections from Wordsworth, Keats and Shelley in Book IV of *Palgraves Golden Treasury* (First Series).

## GROUP III—ORATORY

Burke: *Speech on Conciliation with America*.

Macaulay's *Two Speeches on Copyright*, and *Lincoln's Speech at Cooper Union*.

*Washington's Farewell Address* and *Webster's First Bunker Hill Oration*.

## GROUP IV—ESSAYS

Carlyle: *Essay on Burns*, with a selection from *Burns's Poems*.

Macaulay: *Life of Johnson*.

Emerson: *Essay on Manners*.

*B.* A test on the books prescribed under *B. Study* above, which will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

## Latin

*Elementary (two units)*

a. I. Latin Grammar: The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verb; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.

II. Latin Prose Composition: Translation into Latin of detached sentences and easy continuous prose based on *Caesar*.

b. *Caesar*: Any four books of the *Gallic War*, preferably the first four.

*Advanced (two units)*

a. *Cicero*: Any six orations from the following list, but preferably the first six mentioned. The four orations against *Catiline*, *Archias*, the *Manilian Law*, *Marcellus*, *Roscius*, *Milo*, *Sestius*, *Ligarius*, the *Fourteenth Philippic*.

b. *Virgil*: The first six books of *Æneid*.



c. Advanced Prose Composition, consisting of continuous prose of moderate difficulty based on Cicero.

d. Sight Translation, based on prose of no greater difficulty than the easier portions of Cicero's orations.

Greek

*Elementary (two units)*

a. I. Greek Grammar: The topics for the examination in Greek grammar are similar to those detailed under Latin grammar.

II. Greek Prose Composition, consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions. The examination in grammar and prose composition will be based on the first two books of Xenophon's *Anabasis*.

b. Xenophon: The first four books of the *Anabasis*.

*Advanced (one unit)*

a. Homer: The first three books of the *Iliad* (omitting II, 494, to end).

b. Sight Translation, based on prose of no greater difficulty than Xenophon's *Anabasis*.

French

*Elementary (two units)*

Candidates in Elementary French must have a good knowledge of the essential parts of grammar, with stress on pronouns and on regular verbs and the common irregular verbs. They must know the principles of pronunciation; must be able to translate simple English sentences or easy connected prose into French, and to translate accurately ordinary modern French prose. Candidates must have translated not less than 450 duodecimo pages by at least four different authors, of which amount at least one-third must be history. Candidates must have had a two-years' course of five periods per week.

*Advanced (two units)*

Candidates in advanced French must have partly translated, partly read, in addition to the requirements for Elementary French, at least 1000 pages of difficult French of several different authors, including history, fiction, drama, and poetry. Candidates must have had a four-years' course of five periods per week.

Fraser and Squair's French Grammar or Grandgent's Essentials of French Grammar is recommended.

Spanish

*(Two units)*

Candidates in Spanish must have a good knowledge of grammar, including syntax, with stress on pronouns and verbs, regular and irreg-

ular. They must know the principles of pronunciation. They must be able to translate simple English sentences or easy connected prose into Spanish, and to translate accurately fairly difficult modern Spanish prose and verse. Candidates must have translated not less than 500 pages by at least four different authors, of which amount at least one-fourth must be history or drama. Candidates must have had a two-years' course of five periods per week.

#### German

##### *Elementary (two units)*

Candidates in Elementary German must have had a two-years' course of five periods a week. They must be able to read fluently at sight and to translate easy narrative prose and poetry. An accurate knowledge of an elementary German grammar is requisite, to be tested by the translation into German of some fifteen sentences. About 300 pages of graduated narrative prose, one short play, and such poetry as is usually found in a First Reader will be considered an adequate preparation.

##### *Advanced (two units)*

Candidates in Advanced German must have had a four-years' course of five periods a week. They should be well trained in the syntactical laws of the language, have read about 800 pages of good literature in prose, preferably such prose works as are given in the Report of the Committee of Twelve of the Modern Language Association, and poetry, especially dramas by Lessing, Schiller, and Goethe, and studied an elementary history of German literature. German composition should comprise a number of short themes upon assigned historical or literary topics, lives of the authors read, etc.

#### History

In this subject special importance is attached to preparation in geography.

##### *Ancient (one unit)*

a. Greek History, through the Roman Conquest; as much as is contained in Myer's, Bottsford's, or West's History of Greece.

b. Roman History; as much as is contained in Allen's, Bottsford's or West's History of the Roman People.

##### *Mediaeval and Modern European History (one unit)*

As much as is contained in Myer's History of Mediaeval and Modern Europe.

##### *English History (one unit)*

As much as is contained in Larned's or Cheyney's History of England.



*American History with the Elements of Civil Government (one unit)*

As much as is contained in Fiske's History of the United States, and Fiske's Civil Government.

*Mathematics**Elementary Algebra (one and one-half units)*

I. Algebra to Quadratics: The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals, including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

II. Quadratics, etc.: Quadratic equations and equations containing one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive integral exponents.

*Advanced Algebra (one-half unit)*

The progressions; the elementary treatment of permutations and combinations; the use of four and five place tables and logarithms; undetermined coefficients; the elementary treatment of infinite series, the binomial theorem for fractional and negative exponents; the elementary treatment of the theory of equations.

*Plane Geometry (one unit)*

General text propositions, including the solution of simple original exercises and numerical problems.

*Solid Geometry (one-half unit)*

Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres; of spherical triangles and the measurement of surfaces and solids.

*Plane Trigonometry (one-half unit)*

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulas, theory of logarithms and use of tables, solution of right and oblique plane triangles.

*Physics**(One unit)*

It is recommended that the candidate's preparation should include:

- a. Individual laboratory work, comprising at least thirty-five exercises well distributed over the subjects of physics.
- b. Instruction by lecture-table demonstrations.

c. The study of at least one standard text-book, supplemented by the use of many and varied numerical problems. The metric system should be familiar to the student.

The laboratory note-book must be submitted for inspection, whether the candidate is admitted on certificate or by examination.

#### Chemistry

##### (One unit)

The candidate's preparation in chemistry should include:

a. Individual laboratory work, comprising at least forty experiments of a character analogous to those set forth by the College Entrance Examination Board. The laboratory note-book must be submitted for inspection.

b. Instruction by lecture-table demonstrations.

c. The study of at least one modern text-book.

*Requirements.*—The ground to be covered should include the following: The chief physical and chemical characteristics, the isolation and the recognition of the following elements and the preparation and study of their principal compounds: *Oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur, phosphorus, silicon, potassium, sodium, calcium, magnesium, zinc, copper, mercury, silver, aluminum, lead, tin, iron, manganese, chromium.*

The more detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds, such as water, hydrochloric acid, carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur dioxide, sulphuric acid, hydrogen sulphide, sodium hydroxide, ammonium hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flame, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and on Boyle's and Charles' laws, symbols, formulas, equations and nomenclature, atomic theory, atomic weights, nascent state, natural groupings of the elements, solution (solvents and solubility of gases, liquids, and solids), strength of acids and bases, conservation and dissipation of energy, chemical energy and electrolysis, and of valence, electrolytic dissociation, osmosis, mass action in a very elementary way. Chemical terms should be clearly understood, and the student should be able to illustrate and apply the ideas that they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts. The facts should be given as examples from various classes and not as isolated things.

#### Additional Subjects

Certificates will be accepted in botany, zoology, physiology, physiography, political economy, drawing, music, and other accredited subjects in secondary schools.



*Manual-training High School Subjects*

Technical subjects in manual-training high schools, or schools of similar grade, when duly certified, will be credited as follows:

Shopwork (not exceeding two units), domestic science and domestic art (not exceeding two units).

*Business High School Subjects*

Commercial subjects in business high schools or schools of similar grade, when duly certified, will be credited as follows:

Accounting and Finance. (One unit.)

Bookkeeping. (Two units.)

Business Organization. (One unit.)

Commercial Law. (One unit.)

Government and Industrial Problems. (One-half unit.)

Commercial History. (One-half unit.)

Commercial and Physical Geography. (One-half unit.)

## ADMISSION TO ADVANCED STANDING

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

## SPECIAL STUDENTS

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

## SCHOLARSHIPS AND PRIZES

Applications for scholarships should be filed with the Dean of the College in which the student is to register not later than September fifteenth. All Scholarships except the Kendall Scholarship and the University Scholarships are awarded for one year only but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term, or whose deportment is unsatisfactory, will be reported to the President's Council, and in the absence of extenuating circumstances the scholarship will be revoked. All designations to scholarships are awarded by the President's Council on the recommendation of a Dean.

*Scholarships for Competition*

The University offers the following scholarships to be awarded on competitive examination given at the time of the May entrance examinations. Holders of these scholarships are expected to pursue a regular

course in one of the colleges of the Department of Arts and Sciences. No scholarship is awarded to a candidate whose examination average is below 80 per cent.

*Kendall Scholarship.*—The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that member of the graduating class of any of the Washington High Schools who attains the highest average in the entrance examinations. This scholarship continues throughout the undergraduate course, and the student holding it pays only the matriculation, library, laboratory, and graduation fees.

*University Scholarships.*—The University offers also six scholarships, to be awarded annually to members of the graduating classes of any of the Washington High Schools. These scholarships continue throughout the undergraduate course, and students holding them pay only the matriculation, library, laboratory, and graduation fees.

#### Scholarships for Assignment

*Davis Scholarship.*—This is the income of a fund of one thousand dollars given to the University in October, 1869, by Hon. Isaac Davis, of Massachusetts.

*Mary Lowell Stone Scholarship.*—This scholarship was founded by a woman in memory of a woman student of science. It consists of a fund of two thousand dollars, the income from which is to be paid to needy women students of science in the University.

*Maria M. Carter Scholarship.*—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Maria M. Carter.

*Farnham Scholarship.*—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Robert Farnham.

*Withington Scholarship.*—This scholarship was founded in 1830, by the New York Baptist Theological Seminary, to be known as the Withington scholarship. It has an annual stipend in tuition fees of sixty dollars.

*Walker Scholarship.*—This scholarship was founded in 1824 by William Walker, Esq., of Putnam County, Georgia. It carries an annual stipend of one hundred dollars in tuition fees available for an undergraduate intending to enter the Christian ministry.

*Morehouse Scholarship.*—This scholarship was founded by Mr. A. Morehouse, of Washington, D. C., in 1861. It carries an annual stipend of sixty dollars in tuition fees available for an undergraduate intending to enter the Christian ministry.

*Nellie Maynard Knapp Scholarship Fund.*—Established in 1915 by the Columbian women in memory of its president, Mrs. Martin A. Knapp to provide scholarships for women. Application may be made to any of the Deans in the Department of Arts and Sciences.

*Henry Harding Carter Scholarships.*—These scholarships, founded by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, consists of four scholarships of the annual value of fifty dollars each, and



may be awarded to deserving students who are preparing for the civil engineering profession.

*Admiral Powell Scholarships.*—The Admiral Powell Scholarships were founded by Admiral Powell, U. S. Navy. The income from this endowment is for the "free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

These scholarships are especially applicable to those who intend to come up for examination as warrant officers in the Engineer Department of the Navy, to warrant officers who are preparing for examination for appointment as Ensign, or to those who desire to fit themselves for responsible positions in the mercantile marine.

The subjects to be taken by a student will vary according to his preparation and according to the purpose for which he has been awarded the scholarship, but a year's work can be selected from the following topics:

	HOURS
Navigation and Nautical Astronomy.....	2
Algebra and Geometry.....	3
Trigonometry.....	1½
Mechanical and Machine Drawing.....	4
English.....	3
French.....	3
German.....	3
Spanish.....	3
International Law.....	3
Commercial Geography.....	2
Boilers and Power Plants.....	3
Measurement of Power.....	2
Electricity.....	3
Electrical Engineering.....	6

*Ministerial Aid.*—The University authorizes the remission of a stated amount in tuition fees, to be called Ministerial Aid, which may be given to students, resident in the District of Columbia or its immediate vicinity in the regular courses of Columbian College, preparing for the ministry and not yet ordained. Any student receiving Ministerial Aid may be

called upon for clerical or like work to the extent of not more than one hour a week for every ten dollars of tuition remitted, and of not more than four hours in any one week.

*University Aid.*—The University authorizes the remission of a stated amount in tuition fees, to be called University Aid, which may be given to undergraduate students in regular courses in the Department of Arts and Sciences, financially dependent on parents, who are residents of the District of Columbia or its immediate vicinity and whose circumstances warrant pecuniary assistance. Any student receiving University Aid may be called upon for clerical or like work to the extent of not more than one hour a week for every ten dollars of tuition remitted, and for not more than four hours in any one week.

*Columbian Women Loan Fund.*—The Columbian Women have established a fund from which money is loaned to women students, preference being given to women who have already begun work in the University and who need assistance in continuing it. The administration of the fund remains with the Columbian Women.

#### PRIZES

(Only candidates for degrees may compete for these prizes.)

*Staughton and Elton Prizes.*—The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D.D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

*Ruggles Prizes.*—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

*Davis Prizes.*—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Only members of the Senior Class are eligible to compete for these prizes.

*Daughters of the American Revolution Prizes.*—These prizes founded by the Daughters of the American Revolution of the District of Columbia, consist of two gold medals, awarded annually to the two students in the graduating class who, having maintained a high standing in the regular courses in Mediaeval, Modern European, English, and American History during three years, shall produce the best essays upon an assigned topic of American history.

*The Thomas F. Walsh Prize.*—This prize, established by Thomas F. Walsh, Esq., of Colorado, and based upon the income of one thousand dollars, consists of a gold medal awarded annually to that student of the graduating class who, having maintained a high standard in the regular classes of Mediaeval, Modern European, English, and American



History, shall produce the best essay upon a designated period of the History of Ireland.

*E. K. Cutter Prize.*—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to that member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

*Willie E. Fitch Prize.*—The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually for the best examination in Chemistry.

*The Gardiner G. Hubbard Memorial Prize.*—This is a prize in American History established by Mrs. Gertrude M. Hubbard in memory of her husband, the late Gardiner G. Hubbard. The endowment is a fund of one thousand dollars, the income from which is to be given annually to that member of the graduating class who has during four years maintained a high standing in the classes of American History, and who has produced the best essays upon subjects based upon a study of some assigned period of American history.

*Muth Prize.*—Geo. F. Muth and Company offer a set of drawing instruments to the student taking Advanced Mechanical Drawing who makes the highest average record in that subject and in the previous year's Mechanical Drawing.

*Colonial History Prize.*—The Society of the Colonial Dames of America, Chapter III, offers annually a gold medal for excellence in American Colonial History. This prize will be awarded by the professor of History for general excellence in this subject as shown by class standing, by special essays, and by such other tests as shall be prescribed.

*James Macbride Sterrett, Jr., Prize.*—Founded by Professor James Macbride Sterrett in memory of his son, consists of a gold medal annually awarded to that student taking Course 1 in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

*The Chi Omega Prize in Philosophy.*—An annual prize of fifteen dollars is offered by the Phi Alpha Chapter of the Chi Omega Fraternity for the best essay on a philosophical subject to be announced at the close of the preceding academic year by the Committee in charge. Essays must meet the requirements defined by the Committee and be submitted on or before April 1. Only women students who are members of a senior class in the Department of Arts and Sciences, and who are or have been registered in General Psychology, Logic, and the History of Philosophy, are eligible to compete.

*Chi Omega Prize in Sociology.*—An annual prize of fifteen dollars is offered by the Chi Omega Fraternity for the best essay on a sociological subject. All women students registered in the courses in Sociology are

eligible to compete for this prize. The subjects of the essays are to be chosen by the competitors with the approval of the Professor of Sociology. The prize will be awarded by a committee of three, consisting of the Professor of Sociology, the Dean of Columbian College, and a third member selected by these two. Essays in competition for this prize must be submitted to the Professor of Sociology on or before the first of May.

*Sigma Kappa English Prize.*—An annual prize of a set of books to the value of ten dollars is offered by the Sigma Kappa Fraternity to the student passing the best examination in the year's work in English Rhetoric. All members of the classes in English Rhetoric are eligible for this special examination, which will be given during the final examinations.

#### Davis Prize Speaking

The Davis Prize Speaking is held on the Tuesday after the Easter holidays. The Davis Prizes were founded by Hon. Isaac Davis, of Massachusetts, in 1847. The original endowment was five hundred dollars, "proceeds of which will afford three premiums, in cash or gold medals, of the value of five dollars, of ten dollars, and of fifteen dollars annually—these premiums or prizes to be distributed annually to such members of the Senior Class as shall have made the greatest progress in elocution since their connection with the College."

The award of these three prizes is determined by a public speaking contest, in which the participants deliver original orations. Senior students wishing to enter the competition should report to the Dean of Columbian College not later than five weeks before the contest, and submit their orations not later than three weeks before the contest. The prizes are awarded by a committee consisting of three members, selected by the Faculty of the Columbian College.

#### PRIZE AWARDS, 1913-1914

*Ruggles Prize.*—Margaret Marian Browne.

*Elton Prize.*—Edith Cheney.

*Davis Prizes.*—First Prize, Genevieve Margaret Frizzell; Second Prize, Harry G. Beneman; Third Prize, Esther Elizabeth Galbraith.

*Daughters of the American Revolution Prizes.*—Margaret Posey Wilson, Elizabeth Ferguson.

*Thomas F. Walsh Prize.*—Lillian Evans Carpenter.

*E. K. Cutter Prize.*—Mathilde Eiker.

*Sigma Kappa Prize.*—May H. Boteler.

*Gardner G. Hubbard Prize.*—Harry G. Beneman.

*Colonial History Prize.*—Esther Elizabeth Galbraith.

*Chi Omega Prize in Sociology.*—Margaret Posey Wilson.

*Medal for Intercollegiate Debating.*—John Fraser Webster.



## HIGH SCHOOL SCHOLARSHIP AWARDS

- Kendall Scholarship.*—Dorothy G. Sornborger, Central High School.  
*First University.*—Wallace M. Yater, Eastern High School.  
*Second University.*—Emma Reh, Eastern High School.  
*Third University.*—Dorothy Franc Stiefel, Central High School.  
*Fourth University.*—Mildred Padgett, Central High School.  
*Fifth University.*—Maurice Herzmark, Central High School.  
*Sixth University.*—Aubrey Eugene Hummer, McKinley Manual Training School.  
*Special University.*—Esther Kahn, Central High School.

## COLLEGE CHAPEL

Chapel Services are held at 12.20 p.m., Monday, Wednesday, and Friday, throughout the academic year.

The Deans of the Colleges will confer with students as they may desire on questions concerning their welfare and will co-operate with them in all ways to make the college life one of personal helpfulness.

## FEES

1. Matriculation fee (payable once).....	\$5
2. Annual library fee.....	2
3. Tuition fee per annum for each credit hour per week of courses leading to the degrees of A.B., S.B., A.M. S.M., C.E., E.E., M.E. ....	10
The maximum fee charged in any one year is \$150.	
4. Tuition fee per annum for graduate courses leading to the degree of Ph.D. ....	150
Each separate topic.....	50
Where candidates for higher degrees exceed the minimum time limit they may be liable for an additional charge of \$50 per annum for each topic pursued by them.	
5. Registration fee for students taking problems of the Beaux Arts Society.....	2
6. Laboratory courses:	
Material fees:	
Experimental Psychology.....	2
Geology 1, Zoology, Botany, each.....	5
Chemistry 2, 3, 7, and 28; Electrical Engineering; Physics, each.....	10
Chemistry 4 (Assaying).....	20
Chemistry, except 2, 3, 4, 7, and 28, each.....	25
Deposits to cover breakage of apparatus issued, the amount paid in excess of breakage to be returned:	
Chemistry, 2, 3, 7, and 28, each.....	10
Chemistry, except 2, 3, 4, 7, and 28, each.....	25
7. Fee for graduation.....	10

8. Tuition fee for the following special course, not taken by candidates for a degree:  
     Chemistry 4 (Assaying)..... 40
9. Fee for certificates under the seal of the University..... 2

No registration will be accepted for less than a half-year, and no change in the courses undertaken at the time of registration will be made unless approved by the Dean. *Withdrawals during a half-year will be granted only on recommendation of the Dean and the approval of the President.*

#### PAYMENT OF FEES

Matriculation, library, and other special fees, and laboratory deposits are due in full in advance. Tuition and laboratory material fees may be paid in monthly installments in advance. Students unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current academic year. All fees are payable at the office of the Treasurer of the University, 2024 G Street.

#### BOARD AND ROOMS

A register of boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

For catalogues, application blanks, and further information, address

THE SECRETARY,  
*The George Washington University,*  
 2023 G Street, Washington, D. C.



## COLUMBIAN COLLEGE

### ADMISSION

Candidates for admission to the Freshman Class in Columbian College must meet the general admission requirements (p. 51) of fifteen units. A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. *The fifteen units of the entrance requirement must include English, 3 units; Mathematics, 2½ units; and one of the following languages: Latin, Greek, French, German, or Spanish, 2 units.* The remainder of the requirement is elective and may be satisfied in general by any accredited secondary school subjects.

For admission to advanced standing or as special students, see p. 62.

### REQUIREMENTS FOR DEGREES

The undergraduate degrees offered by Columbian College are Bachelor of Arts, Bachelor of Science in Chemistry, and Bachelor of Science in Medicine. To be recommended for any one of these degrees, the student must be registered for at least one academic year in Columbian College; must satisfy the admission requirements, and must complete at least sixty "hours" of undergraduate courses. An "hour" of credit is one recitation or lecture a week or one laboratory period a week for one academic year. No time limit for the course is prescribed and the degree is given when the total of prescribed and elective studies is completed.

One grade of special distinction is recognized in awarding the bachelor's degree. It is shown by inserting the words "With Distinction" on the diploma after the name of the degree. It is awarded under the following conditions:

"That the names of all students who have received a mark of at least B (90 per cent) on courses representing at least sixty (60) per cent of all hours taken by them be submitted by the Dean to the Faculty of the Department in which the student shall be studying for a degree, after the completion of all final examinations in such students' final year of study for their degree;

"That the Faculty, after separate consideration of each individual case, shall, if it see fit, recommend the awarding of the degree 'With Distinction' to students who shall have fulfilled the conditions above specified."

### FOR THE DEGREE OF BACHELOR OF ARTS

To be recommended for the degree of Bachelor of Arts, the student must complete courses of study including a group of prescribed subjects, and aggregating at least sixty "hours."

There are four curriculum groups each leading to the degree of Bachelor of Arts. Every candidate for the degree of Bachelor of Arts selects one of these groups, and thereafter he is not permitted to change to another group except on condition that he fulfill the requirements of the group to which he changes.

The studies of the last two years are elective, subject to such administrative supervision as will insure the general consistency and the liberal character of the courses selected.

The scope of the four curriculum groups is a provision alike for the diversity in the subjects of the secondary school curriculum leading to a college course, and the needs of the various graduate and professional courses of study in the University for which the college course is a preparation.

Group I emphasizes Latin and Greek studies, and it would naturally be taken by students whose preparatory work has included four years of Latin. Group II emphasizes the Modern Languages, affording to students whose preparation has not included Latin the humanistic influences of the literatures of the Modern Languages. Group III emphasizes Mathematics and the Natural Sciences, and would naturally be selected by the student whose college preparation has been scientific rather than literary. Group IV consists of such studies as would constitute needed preparation for the Department of Law, or further study in the political sciences.

(Note—Whenever in the following groups French or German is taken, if it is elementary, the same language shall be continued the succeeding year.)

## Group I

	HOURS
English.....	6
History.....	3
Languages*.....	9
Latin.....	6
Mathematics.....	3
Psychology and Logic.....	3
Electives.....	30

## Group II

	HOURS
English.....	6
French.....	3
German.....	6
History.....	6
Mathematics or Science.....	3
Psychology and Logic.....	3
Romance Language.....	3
Electives.....	30

\* To be elected from Greek, French, German, or Spanish.



## Group III

	HOURS
English.....	3
History.....	3
Mathematics.....	6
Modern Languages.....	6
Psychology and Logic.....	3
Science.....	9
Electives.....	30

## Group IV

	HOURS
Economics.....	3
English.....	3
History.....	6
Mathematics.....	3
Modern Languages or Latin.....	6
Political Science.....	6
Psychology and Logic.....	3
Electives.....	30

## FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY

## Freshman Year

	HOURS
Chemistry, 1, 2.....	5
English, 1 or 2.....	3
Mathematics, 3 or 6.....	3
French or German.....	3
Geology, 1.....	2

## Sophomore Year

	HOURS
Chemistry, 3, 20.....	5
French or German.....	3
Mathematics, 9 or 12.....	3
Physics, 1, 2.....	5

## Junior Year

	HOURS
Chemistry, 21 (4) 23.....	6
French or German.....	3
Mathematics, 20 or 21.....	3
Electrical Engineering, 7.....	3

## Senior Year

	HOURS
Chemistry, 6, 24, 25, 26 or 27.....	9
Economics or History.....	3
Geology, 2.....	2

## POLITICAL SCIENCE COURSES

Columbian College offers systematic instruction in the various branches of the political sciences. This education gives a training that will fit for consular and diplomatic positions and for the public service of the United States, while imparting that general culture and equipment necessary for efficient citizenship and the intelligent grasp of public questions. It is also a suitable training for those who expect to enter commercial life, or to engage subsequently in the study of law.

Regular students who are preparing for the Government Service should register for Group IV of the curriculum requirements for the degree of Bachelor of Arts, and should elect, also, the subjects named in Section 2 of the "Regulations Governing Examinations Promulgated by the Board of Examiners, December 13, 1906."

Special students who are preparing for the Consular Service examinations should register for such courses as relate to subjects named in Section 2, of the Government Regulations.

An Executive order of June 27, 1906, governing appointments and promotions in the Consular Service of the United States, included the following provisions of special interest to students having in view the Consular Service:

The Secretary of State, or such officer of the Department of State as the President shall designate, the Director of the Consular Service,\* the Chief of the Consular Bureau,\* and the Chief Examiner of the Civil Service Commission, or some person whom said Commission shall designate, shall constitute a Board of Examiners for admission to the consular service.

It shall be the duty of the Board of Examiners to formulate rules for and hold examinations of applicants for admission to the consular service.

The scope and method of the examinations shall be determined by the Board of Examiners, but among the subjects shall be included at least one modern language other than English; the natural, industrial and commercial resources and the commerce of the United States, especially with reference to the possibilities of increasing and extending the trade of the United States with foreign countries; political economy; elements of international, commercial and maritime law.

Examination papers shall be rated on a scale of 100, and no person rated at less than 80 shall be eligible for certification.

No one shall be examined who is under twenty-one or over fifty years of age, or who is not a citizen of the United States, or who is not of good character and habits and physically and mentally qualified for the proper performance of consular work, or who has not been specially designated by the President for appointment to the consular service subject to examination.

\*As amended by Executive order of December 8, 1909.



REGULATIONS GOVERNING EXAMINATIONS PROMULGATED BY THE  
BOARD OF EXAMINERS, DECEMBER 13, 1906

1. The examinations will be the same for all grades and will be to determine a candidate's eligibility for appointment in the consular service, irrespective of the grade for which he may have been designated for examination and without regard to any particular office for which he may be selected.

2. The examinations will consist of an oral and a written one, the two counting equally. The object of the oral examination will be to determine the candidate's business ability, alertness, general contemporary information, and natural fitness for the service, including moral, mental, and physical qualifications, character, address, and general education and good command of English. In this part of the examination the applications previously filed will be given due weight by the Board of Examiners, especially as evidence of the applicant's business experience and ability. The written examination will include those subjects mentioned in the Executive order, to wit, at least one modern language other than English—French, German, or Spanish;\* the natural, industrial, and commercial resources and the commerce of the United States, especially with reference to possibilities of increasing and extending the foreign trade of the United States; political economy, and the elements of international, commercial, and maritime law. It will likewise include American history, government, and institutions; political and commercial geography; arithmetic (as used in commercial statistics, tariff calculations, exchange, accounts, etc.); the modern history, since 1850, of Europe, Latin America, and the Far East, with particular attention to political, commercial, and economic tendencies. In the written examination, composition, grammar, punctuation, spelling, and writing will be given attention.

3. To become eligible for appointment, except as student interpreter, in a country where the United States exercises extraterritorial jurisdiction, the applicant must pass the examination outlined above, but supplemented by questions to determine his knowledge of the fundamental principles of common law, the rules of evidence, and the trial of civil and criminal cases.

4. The examinations to be given candidates for appointment as student interpreters will follow the same course as in the case of other consular officers, provided, however, that no one will be examined for admission to the consular service as a student interpreter who is not between the ages of nineteen and twenty-six, inclusive, and unmarried; and, provided further, that upon appointment each student interpreter shall sign an agreement to continue in the service so long as his services may be required, within a period of five† years.

5. Upon the conclusion of the examinations the names of the candidates who shall have attained upon the whole examination an average mark of at least 80, as required by the Executive order, will be certified by the Board to the Secretary of State as eligible for appointment in the consular service, and the successful candidates will be informed that this has been done.

6. The names of candidates will remain on the eligible list for two years, except in the case of such candidates as shall within that period be appointed, or as shall withdraw their names, and of candidates holding subordinate positions in the consular service, when eligibility shall not expire until appointment to consular rank or until separation from

\*As amended by the Board of Examiners, February 13, 1911.

†As amended by the Act approved May 21, 1903.

the service. Candidates whose names have thus been dropped from the eligible list will not again be eligible for appointment unless upon fresh application, designation anew for examination, and the successful passing of such second examination.\*

Students who seek a designation for consular examination should apply to the Department of State for full information. Consular service examinations are held in Washington only.

SUGGESTED COURSE FOR THE POLITICAL SCIENCE STUDENT FOR THE  
DEGREE OF BACHELOR OF ARTS

*First Year*

	HOURS
Economics 1 or 2 (General Economics).....	3
English 1 or 2 (English Rhetoric).....	3
French.....	3
History 1, 2 or 5, 6 (Mediaeval History).....	3
Mathematics, 3 or 6.....	3

*Second Year*

Economics 22, 23 (General Sociology, Modern Social Problems).....	2
French.....	3
German.....	3
History 3, 4 (Modern European); 33 (Current History)....	4
Political Science, 1, 21 or 2, 27.....	3

*Third Year*

Economics, 26, 27 (Public Finance, Money and Banking)...	2
Economics 36 (Commercial Geography and Economic Resources).....	2
French or Spanish.....	3
German.....	3
History (American or English).....	3
Political Science, 2, 27 or 1, 21.....	3

*Fourth Year*

Economics, 33 (Commercial and Maritime Law).....	2
Economics 38, 37 (International Commercial Policy; Transportation).....	2
Economics 40, 41 (Economic History of the United States; Statistics).....	2
History (English or American).....	3
Political Science, 28, 31.....	3
Political Science 29, 30 (International Law and Elements of Diplomacy).....	3
Psychology and Logic.....	3

\*As amended by the Board of Examiners, February 18, 1911.



**COMBINATION SIX-YEAR COURSE FOR DEGREES OF BACHELOR OF ARTS AND BACHELOR OF LAWS**

Professional courses in Law will be credited towards the degree of Bachelor of Arts to the extent of fifteen hours. On the completion of forty-five hours of work in Columbian College, including all of the required subjects in some one of the curriculum groups, and of the first year of the regular course in the Law School, the student will receive the degree of Bachelor of Arts. This combined course contemplates three years of study in Columbian College and three years in the Law School. The effect is to shorten the period of study for the two degrees one year.

**PRE-MEDICAL COURSES**

To meet the higher preliminary requirements for medical education, Columbian College offers the following courses: A *one-year pre-medical course* satisfying the requirement of the American Medical Association for admission to the Medical School; a *six-year combination course*, consisting of two years in Columbian College and four years in the Medical School for which the degrees of Bachelor of Science in Medicine and Doctor of Medicine are given; and a *seven-year combination course*, consisting of three years in Columbian College and four years in the Medical School, for which the degrees of Bachelor of Arts and Doctor of Medicine are given.

The Medical School of the George Washington University in the classification of the Council of Medical Education is one of the "Class A" medical colleges. Since January 1, 1914, the Medical School in common with all other "Class A" schools in the United States, requires for admission to the freshman class a pre-medical course of one college year consisting of specified subjects.

Students having the requisite *high-school* preparation will find it of special advantage to take this pre-medical course in Columbian College, as upon the completion of the year they can be admitted at once to the Medical School.

The candidate for the study of medicine must present on entrance to Columbian College, in addition to the required subjects one unit of History.

Candidates substantially prepared may be registered in Columbian College as conditioned students, provided the deficiency is such that it can be made up before the end of the one-year pre-medical college course. To enter the Medical School, it is necessary to have satisfied all of the required academic or high-school preparation and, in addition, all of the specified subjects of the one-year pre-medical college course. No conditioned student will be registered in the Medical School.

**Admission to One-Year Pre-Medical Course**

One-year pre-medical students will be admitted on the fourteen-unit entrance requirement of the Council on Medical Education of the American Medical Association as follows:

*Seven Required Units.*—English (Reading and Practice), 2 units; Algebra to quadratics, 1 unit; Plane Geometry, 1 unit; German or French, or Latin or Greek, 2 units; History 1 unit.

*Seven Elective Units.*—To be selected from the following: English, Mathematics, Latin, Greek, German, French, Spanish, Scandinavian, Science with laboratory work, Agriculture, Drawing, Manual Training, Domestic Science, Music.

#### One-Year Pre-Medical Course in Columbian College

Candidates for the one-year pre-medical course for admission to the Medical School should register in Columbian College for the following courses:

Physics 3 (lectures).....	3 hours
Physics 2 (laboratory).....	2 periods
Chemistry 1 (lectures).....	3 hours
Chemistry 2 (laboratory).....	2 periods
Zoölogy 1 (lectures and laboratory).....	4 periods

#### Six-Year Course for the Degrees of Bachelor of Science in Medicine and Doctor of Medicine

Regular students in this course will complete two years of work amounting to thirty-seven prescribed hours in Columbian College and the four-year course in the Medical School. On the completion of this six-year course, the student will receive at the same time the degrees of Bachelor of Science in Medicine and Doctor of Medicine. The curriculum requirement for this combined six-year course is as follows:

Biological Sciences:	HOURS
Zoölogy 1.....	4
Botany 1.....	3
Chemistry 1, 2, 23.....	7
English 1 or 2.....	3
German or French or Spanish.....	6
History.....	3
Mathematics 3 or 6.....	3
Physics 3 and 2.....	5
Psychology and Logic.....	3
Total.....	37

#### Seven-Year Course for the Degree of Bachelor of Arts and Doctor of Medicine

Professional courses in Medicine will be credited towards the degree of Bachelor of Arts to the extent of fifteen hours. On the completion of forty-five hours of work in Columbian College including all of the



required subjects in some one of the curriculum groups and in addition all the pre-medical subjects, and on the completion of the first year of the regular course in the Medical School, the student will receive the degree of Bachelor of Arts. This combined course contemplates three years of study in Columbian College and four years in the Medical School. The effect is to shorten the period of study for the two degrees one year.

## SCHEDULE OF SUBJECTS FOR THE FIRST TWO YEARS

	MON.	TUES.	WED.	THURS.	FRI.	SAT.
9.15	Math. 3	English 3	Math. 3	English 3	Math. 3	English 3
10.15	French 3 Math. 9 Phil. 1 Greek A	English 1 Physics 2 Political Science 1, 21	French 3 Math. 9 Phil. 3 Greek A	English 1 Physics 2 Political Science 1, 21	French 3 Math. 9 Phil. 1 Greek A	English 1 Political Science 1, 21
11.15	Econ. 1 French 1 German 3 Greek 2	German 1 Physics 2	Econ. 1 French 1 German 3 Greek 2	German 1 Physics 2	Econ. 1 French 1 German 3 Greek 2	German 1
1.45	German 5 Graphics 1 Latin 2 Physics 3 Spanish 2	Chem. 2 Chem. 3 Chem. 7	German 5 Graphics 1 Latin 2 Physics 3 Spanish 2	Chem. 2 Chem. 3 Chem. 7	German 5 Latin 2 Physics 3 Spanish 2	
2.45	Graphics 1 Greek 1 Hist. 1, 2	Chem. 2 Chem. 3 Chem. 7	Graphics 1 Greek 1 Hist. 1, 2	Chem. 2 Chem. 3 Chem. 7	Greek 1 Hist. 1, 2	
3.45	French 5 Graphics 1 Hist. 3, 4 Latin 1	Chem. 2 Chem. 3 Chem. 7	French 5 Graphics 1 Hist. 3, 4 Latin 1	Chem. 2 Chem. 3 Chem. 7	French 5 Hist. 3, 4 Latin 1	
8.00	English 2 Geology 1 Physics 1 Math. 4 Phil. 2 Spanish 1 Zoology 1	English 5 Botany 1 Chem. 1 French 4 German 2 Hist. 30 Political Science 2, 4	English 2 Physics 1 Math. 4 Phil. 4 Spanish 1 Zoology 1 Zoology 2	English 5 Botany 1 Chem. 1 French 4 German 2 Hist. 30 Political Science 2, 4	English 2 Geology 1 Phil. 2 Physics 1 Math. 4 Spanish 1 Zoology 1 Zoology 2	Botany 1 Chem. 1 French 4 German 2 History 30 Political Science 2, 4
8.50	Econ. 2 English 4 Geology 2 Math. 13 Math. 6 Zoology 2	Chem. 6 French 2 French 6 German 4 Hist. 5, 6	Econ. 2 English 4 Math. 12 Math. 6 Zoology 1 Zoology 2	French 2 French 6 German 4 Hist. 5, 6	Econ. 2 English 4 Geology 2 Math. 12 Math. 6 Zoology 1 Zoology 2	French 2 French 6 German 4 History 5, 6



## COLLEGE OF ENGINEERING

### ADMISSION

Candidates for admission to the Freshman Class in the Engineering Courses are required to present fifteen units for admission, distributed as follows:

	UNITS
English.....	3
French or German.....	4
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	2
Plane Trigonometry.....	½
Chemistry.....	1
Physics.....	1
Electives.....	2
<b>Total.....</b>	<b>15</b>

NOTE.—The modern language requirement may be satisfied by presenting four units in one language, or two units in French and two units in German. Students who present four units in one language will study the other language two years in College. Students who present two units in French and two units in German will study each language one year in College.

Candidates for admission to the Freshman Class in the Architectural Course are required to present fifteen units for admission, distributed as follows:

	UNITS
English.....	3
French or German.....	2
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	2
Plane Trigonometry.....	½
Electives.....	6
<b>Total.....</b>	<b>15</b>

For detailed descriptions of the requirements in each preparatory subject see pages 52-62.

For admission to advanced standing or as a special student, see page 62.

## COURSES FOR A DEGREE

Four courses of study are offered:

- I. CIVIL ENGINEERING.
- II. ELECTRICAL ENGINEERING.
- III. MECHANICAL ENGINEERING.
- IV. ARCHITECTURE.

These courses occupy four years each, and lead to the degree of Bachelor of Science in Civil Engineering, in Electrical Engineering, in Mechanical Engineering, and in Architecture, respectively. Graduate courses of one year under the Faculty of Graduate Studies of the George Washington University are open to those who receive the above engineering degrees, and lead, respectively, to the degrees of Civil Engineer, Electrical Engineer, and Mechanical Engineer.

## REQUIREMENTS FOR A DEGREE

The arrangement of the topics in each of the regular courses for degree is shown below. The numbers following the names of subjects refer to the courses as given in the list of Department Subjects on pages 88-123, to which reference should be made for more complete description.

## COMMON TO ALL ENGINEERING COURSES

## Freshman Year

- Chemistry, 1, 7.
- General Chemistry and Qualitative Analysis.
- English, 1 or 2.
- Rhetoric.
- French or German.
- Graphics, 1.
- Mechanical and Freehand Drawing.
- Mathematics, 9 or 12.
- Trigonometry; Analytic Geometry.

## CIVIL ENGINEERING COURSE

## Sophomore Year

- Civil Engineering, 1, 3, 4.
- Surveying; Highway Engineering; Materials of Construction.
- French or German.
- Graphics, 8.
- Descriptive Geometry
- Mathematics, 20 or 21.
- Calculus.
- Physics, 1, 2.
- General Physics; Laboratory Physics.



## Junior Year

Applied Mathematics, 20, 22.  
 Mechanics; Mechanics of Materials.  
 Chemistry, 6.  
 Metallurgy.  
 Civil Engineering, 2, 8, 22.  
 Railroad Engineering; Practical Astronomy; Theory of Structures.  
 Electrical Engineering, 6.  
 Industrial Electricity.  
 Geology, 2.

## Senior Year

Applied Mathematics, 21.  
 Hydraulics.  
 Civil Engineering, 20, 21, 23, 24.  
 Masonry; Hydraulic Engineering; Theory of Structures; Sanitary Engineering.  
 Economics, 33.  
 Commercial Law.

## ELECTRICAL ENGINEERING COURSE

## Sophomore Year

French or German.  
 Graphics, 2, 8.  
 Advanced Mechanical Drawing; Descriptive Geometry.  
 Mathematics, 20 or 21.  
 Calculus.  
 Mechanical Engineering, 1.  
 Mechanism.  
 Physics, 1, 2  
 General Physics; Laboratory Physics.

## Junior Year

Applied Mathematics, 20, 22.  
 Mechanics; Mechanics of Materials.  
 Chemistry, 6.  
 Metallurgy.  
 Economics, 33.  
 Commercial Law.  
 Electrical Engineering, 1, 2, 4, 5.  
 Elementary Electricity and Electrical Engineering; Electrical Measurements; Electrical Engineering Laboratory.  
 Mechanical Engineering, 20, 21.  
 Steam Engineering; Boilers.

## Senior Year

- Applied Mathematics, 21.
  - Hydraulics.
- Civil Engineering, 5, 6.
  - Surveying Instruments; Foundations.
- Electrical Engineering, 8, 21, 22, 23, 24, 26, 27.
  - Electrical Designs; Alternating Currents; Electrical Distribution; Electrical Applications; Electrical Engineering Laboratory; Electric Lighting; Electric Railways.
- Mechanical Engineering, 10, 23.
  - Engineering Laboratory; Hydraulic Machinery.

## MECHANICAL ENGINEERING COURSE

## Sophomore Year

- French or German.
- Graphics, 2, 8.
  - Advanced Mechanical Drawing; Descriptive Geometry
- Mathematics, 20 or 21.
  - Calculus.
- Mechanical Engineering, 1.
  - Mechanism.
- Physics, 1, 2
  - General Physics; Laboratory Physics.

## Junior Year

- Applied Mathematics, 20, 22.
  - Mechanics; Mechanics of Materials.
- Civil Engineering, 22.
  - Theory of Structures.
- Economics, 33.
  - Commercial Law.
- Mechanical Engineering, 6, 9, 20, 21, 24, 28.
  - Engineering Drawing; Engineering Laboratory; Steam Engineering; Boilers; Cotton Machinery and Machine Tools; Industrial Management.

## Senior Year

- Applied Mathematics, 21.
  - Hydraulics.
- Chemistry, 6.
  - Metallurgy.
- Civil Engineering, 5, 6.
  - Surveying Instruments; Foundations.



Electrical Engineering, 7.

Dynamos and Motors.

Mechanical Engineering, 7, 10, 22, 23, 26, 27.

Machine Design; Engineering Laboratory; Gas Engines;  
Hydraulic Machinery; Dynamics of Machinery; Power Plant  
Design.

#### COURSE IN ARCHITECTURE

##### Freshman Year

Architecture, 2, 3, 4.

Free-hand Drawing; Architectural Drawing and Elementary  
Design; Projections, Shades, Shadows and Perspective.

English, 1 or 2.

Rhetoric.

French.

Mathematics, 9 or 12.

Trigonometry; Analytic Geometry.

##### Sophomore Year

Architecture, 5, 6, 8.

Architectural Design; Free-hand Drawing; History of Archi-  
tecture.

English, 3 or 4.

Humanistic Studies.

French.

Geology, 2.

##### Junior Year

Architecture, 20, 21, 22, 24, 25, 33.

History of Architecture; Building Construction; Sanitation;  
Pen and Ink Rendering; Design; Water Color.

Physics, 1 or 3.

General Physics.

##### Senior Year

Archaeology, 20.

History of Art.

Architecture, 27 or 37, 39, 40, 41, 43.

Design; Building Construction; Water Color; Heating and  
Ventilating; Office Practice.

Economics, 33.

Commercial Law.

Electrical Engineering, 26.

Electric Lighting and Illumination.

## TEACHERS COLLEGE

The purpose of Teachers College is to provide (a) collegiate training for teachers, (b) instruction in education as a department of science.

The aims of the Teachers College may be summarized as follows:

- a. To promote the knowledge of educational science.
- b. To fit students for the higher positions in the public school service.
- c. To secure to teaching the rights and prerogatives of a profession.
- d. To aid in raising the standards of educational practice, and so to increase the efficiency of public education.

### ORGANIZATION

In order to combine to the best advantage a general college education with adequate professional training for teaching, Teachers College provides a four years' college course, the first two years of which are devoted to a foundation of general culture courses, and the last two to the professional courses and to specialization in the subjects which the student expects to teach.

Inasmuch as a large number of teachers in service are without college degrees, and a still larger number desire to supplement their professional training by taking special courses, the courses of instruction have been arranged to meet the needs of teachers in service, as well as of undergraduate students. The required courses constituting the prescribed work in education are given both in the morning and in the late afternoon hours, and are, therefore, easily accessible both to students and to teachers from the schools.

### ADMISSION

Candidates for admission to the Freshman Class in Teachers College must meet the general admission requirements (p. 51) of fifteen units. *Three of these must be in English, two and one-half in Mathematics, and two in one of the following languages: Latin, Greek, French, German, or Spanish.* The remainder of the required fifteen units may be satisfied by any accredited secondary subjects.

Persons desirous of taking one or more of the professional courses, without becoming candidates for a degree, may be admitted as *special students* on the presentation of satisfactory evidence that they are qualified to pursue the work to advantage.

### ADVANCED STANDING

Students transferring from normal schools, colleges, and other schools of similar rank will be admitted to such advanced standing as the courses they have pursued warrant. Graduates of normal schools whose



courses rest upon graduation from an approved four-year high school are granted twenty-four hours of advanced standing.

For further information concerning admission as special student or to advanced standing, see p. 62.

#### GRADUATION

On the completion of courses of study aggregating at least sixty-two hours, the University confers the degree of Bachelor of Arts and a Bachelor's Diploma in Education. (An "hour" of credit is one recitation or lecture a week or one laboratory period a week for one academic year.) These courses are partly prescribed and partly elective, and the degree is conferred when the necessary work is completed, no time limit being set. The prescriptions are as follows:

a. In general culture subjects:

	HOURS
Biology*.....	3
English.....	3
Foreign Language*.....	6
History*.....	6
Psychology and Logic.....	3
Philosophy.....	3

For the subjects marked with an asterisk (\*) electives may be substituted to the extent that approved secondary school work has been done in these subjects. The foreign language requirement must fall in one language, while in history it is required that a survey of the world's history be obtained, and to the extent that this survey has not been obtained before entering college will college work in history be required.

b. In professional subjects ten hours are required of which the following seven are prescribed, although teachers of experience may receive credit for Observation and Practice Teaching.

	HOURS
History of Education.....	2
Principles of Education }.....	2
Principles of Teaching }	
School Hygiene.....	1
Observation and Practice Teaching.....	2

c. All regular students must complete before graduation at least nine hours in a Major, and at least five hours in a Minor subject, in addition to the first required course, if any, in the same subject.

#### THE TEACHER'S DIPLOMA

The Bachelor's Diploma in Education is granted in connection with the Bachelor of Arts degree upon the fulfillment of the following condition: a. The student must have satisfactorily completed the courses

of study defined above. *b.* He must, in the judgment of his instructors, also possess other qualifications essential to success in teaching.

The Diploma is given also in connection with higher degrees, provided a graduate student has taken a major or minor in Education, and has satisfied the requirements *a*, *b* and *c* above, or in lieu of *a* and *c* has completed equivalent work in another institution.

A student holding a bachelor's degree from an approved college or university may, by satisfying requirements *a*, *b*, and *c* above, earn the Diploma without registering for a degree.

#### OBSERVATION AND PRACTICE TEACHING

A demonstration school which provides ample opportunities for teaching under actual school conditions was opened during the past year in Saint John's Church Orphanage. The student-teachers are given full responsibility in government and instruction. Through the courtesy of the officials of the public schools, these opportunities are supplemented by systematic observation in the high and elementary schools of Washington.

#### EXPERIMENTAL WORK

Teachers College maintains a psychological laboratory for introductory experimental work. The equipment is specially adapted to the investigation of problems of interest to students of education.

The school system of a large city, moreover, offers abundant opportunity for observation, and for the study of methods and other practical educational problems.

#### TEACHERS APPOINTMENT BUREAU

Teachers College maintains a Teachers Appointment Bureau for the purpose of aiding students who are studying, or have studied, in the University, to secure positions as teachers. This service is performed gratuitously, in the interest both of students and of superintendents of schools and boards of education wishing to employ teachers.



## COURSES OF INSTRUCTION

### PROVIDED BY THE DEPARTMENT OF ARTS AND SCIENCES

Courses of instruction are divided into three sections.

First-section courses may be taken by third or fourth year students only by permission of the Dean and the professor in charge of the subject. They may sometimes be recommended to graduate students, but are not counted toward the higher degrees. The courses in the second section are in general for advanced students, candidates for the bachelor's degree; they serve, however, with additional work, as minors for the higher degrees, provided they have not already counted toward a degree. They may be taken by students in the second year of their course only by special permission of the professor in charge. The courses in the third section are in general for graduate students only, candidates for one or other of the higher degrees. They are open to undergraduates only on the recommendation of the instructors, and no undergraduate student shall take in one year more than one course in the third section. When an announced course has not been applied for by at least three students, candidates for a degree, the instructor may withdraw the course. First-section courses are numbered 1 to 19, inclusive; second-section courses 20 to 49, inclusive; third-section courses, 50 and upwards. The number of hours, unless otherwise specified, indicate hours per week throughout the year. The unit of credit is one hour of recitation or lecture work per week for one academic year; laboratory hours in Chemistry count one-third unit each, in other subjects one-half unit each. Laboratories and drawing-rooms will be open from 9.15 a.m. till 10 p.m., with competent assistants in charge to direct students. No student is admitted to a course unless he fulfills all the preliminary requirements for the course, or otherwise satisfies the instructor that he is prepared to pursue it. Every student must make his election of courses so as to avoid conflict between the hours appointed for recitations.

Under each course is stated the number of credits for which the course is counted toward satisfying the requirements for the undergraduate degrees of Bachelor of Arts and Bachelor of Science or for the graduate degrees of Master of Arts and Master of Science or for the graduate degrees in engineering.

#### APPLIED MATHEMATICS

See Engineering.

## ARCHAEOLOGY AND HISTORY OF ART

MITCHELL CARROLL, Ph.D.....	Professor
REBECCA SHERMAN ASHLEY, A.B.....	Instructor
EDGAR L. HEWETT, D.Soc.....	Lecturer

*Second Section. For Undergraduates and Graduates*

20. *History of Art*.—An introductory course in the history of architecture, sculpture, and painting, Greek, Roman, Mediaeval, Italian. Illustrated lectures and conferences. 20a. Greek Art. Tu. at 2.45. One credit. Professor CARROLL. 20b. Fifteenth Century Italian Art. Th. at 2.45. One credit. Miss ASHLEY.

21. *Roman, Christian and Gothic Art*.—Tu. at 4.00. One credit. Professor CARROLL.

22. *Sixteenth Century Italian Art*.—Th. at 4.00. One credit. Miss ASHLEY.

23. *Flemish, French and German Art*.—Th. at 5.00. One credit. Miss ASHLEY.

24. *British and American Art*.—Tu. at 5.00. One credit. Professor CARROLL.

*Third Section. Primarily for Graduates*

50. *Classical Archaeology*.—Topography and Monuments of Athens and Rome. Three credits. Professor CARROLL.

51. *History of Art*.—Important epochs in the development of architecture, sculpture and painting. Three credits. Professor CARROLL assisted by Miss ASHLEY.

52. *American Archaeology*.—In conjunction with the School of American Archaeology in Santz Fe. Three credits. Dr. HEWETT.

Use is made of the illustrative material in the National Museum, the Library of Congress and the Corcoran Gallery of Art. Students are invited to the open meetings of the Art and Archaeology League of Washington, and the Washington Society of the Archaeological Institute of America.

## ARCHITECTURE

ALBERT BURNLEY BIBB.....	Professor
ALBERT LEWIS HARRIS, B.S. in Arch.....	Assistant Professor
BEDFORD BROWN, B.S.....	Assistant Professor
MEADE BOLTON.....	Instructor

*First Section. Primarily for Undergraduates*

2. *Freehand Drawing*.—This course consists of drawing, in charcoal, from casts of simple form. Two periods. Two credits. Professor BIBB.

Credit for this course may also be obtained by taking work at the Corcoran Gallery of Art.



3. *Architectural Drawing and Elementary Design*.—This course includes the study of the elements of Architecture including the Five Orders, the use of india ink and water color rendering. At least nine hours per week are to be spent by the student in the drafting room. Three credits.

Criticisms by Mr. BOLTON on Monday, Wednesday and Friday evenings.

4. *Projections, Shades, Shadows and Perspective*.—A course in orthographic projections, shades and shadows, followed by a short course in perspective. Two hours. Two credits.

Criticisms by Mr. BOLTON on Monday evenings.

5. *Design*.—Problems of an elementary character are given to prepare the student for work in the Class B order of the Society of Beaux-Arts Architects; the rendering of these problems of this Society. At least twelve hours per week are to be spent by the student in the drafting room. Criticisms by Assistant Professor BROWN on Tuesday, Thursday and Friday evenings. Four credits.

6. *Freehand Drawing*.—Advanced course. A continuation of Course 1, and consists of drawing in charcoal and pencil from architectural casts. Two periods. Two credits. Professor BIBB.

Credit for this course may also be obtained by taking work at the Corcoran Gallery of Art.

8. *History of Architecture*.—The course is designed to trace the development of the art in Ancient Egypt, in Greece, and in Rome, and through the early Christian, Byzantine, and Mediaeval periods. Tu., Th., Sat., at 5.00. Three credits. Professor BIBB.

#### *Second Section. For Undergraduates and Graduates*

20. *History of Architecture*.—An advanced course offering a critical study of the architecture of the Renaissance in Italy, France and England, and of its effect upon the building arts of our own time. Tu., Th., Sat., at 5.50. Three credits. Professor BIBB.

21. *Building Construction*.—Frame buildings, details of construction, interior finish, three-fourths scale and full size details. One lecture and three hours in drafting room. Two credits. Assistant Professor HARRIS.

22. *Sanitation*.—History of sanitation; pollution of water sources; modern plumbing practice; methods of sewage disposal, septic tank, sewage disposal fields, etc. Two lectures a week for one term. One credit. Assistant Professor HARRIS.

24. *Pen and Ink Rendering*.—A study of the renderings of the best pen and ink draftsmen with practice in the use of the pen as a means of Architectural expression. One period. One credit.

Hours of criticism selected by conference with Assistant Professor BROWN.

25. *Design*.—Plan problems, sketch problems, and archaeology problems from the Class B Plan programs of the Society of Beaux-Arts Architects. At least fifteen hours a week are to be spent by the student in the drafting room. Five credits. Criticism by Assistant Professor BROWN on Tuesday and Friday evenings.

27. *Advanced Design*.—Plan problems and sketch problems are given from the Class A programs of the Society of Beaux-Arts Architects. The latter part of the year is devoted to a thesis, the subject being selected by the student subject to the approval of the Professor of Design. At least eighteen hours a week are to be spent by the student in the drafting room. Six credits. Criticism by Assistant Professor BROWN on Tuesday and Friday evenings.

33. *Water Color*.—Drawing in water color from still life models, from architectural interiors, and from buildings and gardens. Two periods. Two credits. Professor BIBB.

37. *Beaux-Arts Problems*.—In advanced design the student may take the problems under the criticism of Mr. CLARENCE DEAN at the Washington Architectural Club.

39. *Building Construction*.—Masonry foundations, pile foundations, stone work, brick work, fire-proofing, ornamental terra cotta, plastering, specifications. One lecture and three hours in drafting room a week. Two credits. Assistant Professor HARRIS.

40. *Water Color*.—Advanced course. A continuation of course 33. Two periods. Two credits. Professor BIBB.

41. *Heating and Ventilating*.—Elementary principles of heating and ventilating; details of installation of hot air, hot water, and steam heating plants. Two lectures for one term. One credit. Assistant Professor HARRIS.

43. *Office Practice*.—A course of lectures on office practice, business methods of an Architect and special types of buildings by the teaching staff and practicing Architects of the District of Columbia. One credit.

#### ASTRO-PHYSICS

FREDERICK EUGENE FOWLE, JR. .... Lecturer

#### *Third Section. Primarily for Graduates*

54. A lecture course on the astro-physical instruments employed in modern research. Mr. FOWLE.

#### BIOLOGICAL SCIENCE

PAUL BARTSCH, Ph.D. .... Professor  
ALBERT MANN, Ph.D. .... Professor  
JULIA THECKLA MACMILLAN, A.M. .... Instructor  
GEORGE TRAVER HARRINGTON, B.S. in Agri., B.S. in Chem. .... Instructor  
ALEXANDER WETMORE, A.B. .... Instructor



**Zoology***First Section. Primarily for Undergraduates*

1. *Systematic Zoology*.—1. Invertebrates. This includes lectures and laboratory work. The lectures cover all the branches of Invertebrates, and correlated with these lectures is the study and dissection of typical specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws, and the general principles of evolution. Lecture, *Mon.*, at 5.00 and a second hour to be arranged; laboratory, *Wed., Fri.*, 5.00-6.40. Four credits. Professor BARTSCH and Miss MACMILLAN.

2. *Systematic Zoology*.—II. Vertebrates. This includes lectures and laboratory work. The lectures will cover the various branches of Vertebrates, and correlated with these is the study and dissection of typical specimens of each group. Lecture, *Mon.*, at 5.50; laboratory *Wed., Fri.*, 5.00-6.40. Three credits. Professor BARTSCH, Mr. WETMORE and Miss MACMILLAN.

*Second Section. For Undergraduates and Graduates*

20. *Practical Zoology*.—A lecture course illustrated with lantern slides and demonstrations. In this course only beneficial and injurious animals of all classes will be considered, especial stress being laid upon the problems of preservation and extermination. The course aims to expound the economic side of zoology. Open to all students. One hour. One credit. Not given 1915-16. Professor BARTSCH.

23. *Ornithology*.—A systematic course embracing lectures and laboratory work. The lectures are illustrated with lantern slides, showing the home life of birds. The laboratory work consists in classifying bird skins, of which the University possesses an excellent series. Special attention is directed to the study of the birds of the District of Columbia, and frequent field excursions are made to familiarize the student with the haunts and habits of these forms. Lecture, one hour; laboratory, one two-hour period. Two credits. Professor BARTSCH and Miss MACMILLAN.

Laboratory courses in histology and physiology will be arranged for competent students.

*Third Section. Primarily for Graduates*

50. Courses may be arranged for competent graduates. Five credits. Professor BARTSCH.

**Botany***First Section. Primarily for Undergraduates*

1. *General Botany*.—An introductory course dealing with the fundamental concepts of plant life. Representative members of the different

groups of plants will be studied, and lines of evolutionary development will be emphasized. Lecture, *Th.*, at 5.00; laboratory, *Tu.*, and *Sat.*, 5.00-6.40. Three credits. Mr. HARRINGTON.

*Third Section. Primarily for Graduates*

50. Original investigation in (a) Economic Botany, Materia Medica, etc.; (b) Parasitism and Monstrosities; (c) Researches in Physiology of single groups; (d) Comparative Organography. Five credits. Professor MANN.

**BOTANY**

See Biological Sciences.

**CHEMISTRY**

CHARLES EDWARD MUNROE, Ph.D., LL.D.....	Professor
FRANK WIGGLESWORTH CLARKE, Sc.D.....	Professor
NEVIL MONROE HOPKINS, Ph.D.....	Assistant Professor
EDWIN ALLSTON HILL, Ph.D.....	Assistant Professor
THOMAS MALCOLM PRICE, Ph.D.....	Assistant Professor
OTIS DOW SWETT, LL.M., M.S.....	Assistant Professor
HIRAM COLVER MCNIEL, Ph.D.....	Assistant Professor
EDWIN HENRY INGERSOLL, M.S.....	Instructor
HENRY ALBERT LEPPER, B.S.....	Assistant

*First Section. Primarily for Undergraduates*

1. *General Chemistry*.—A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. *Tu.*, *Th.*, *Sat.*, at 4.50. Three credits. Professor MUNROE, Assistant Professor SWETT.

2. *Laboratory Practice*.—A laboratory course for the study of the principles of chemistry and the method of conducting chemical experiment. Two three-hour periods. *Tu.*, *Th.*, at 1.30 or at 7. Two credits. Professor MUNROE, Assistant Professor SWETT.

3. *Preparation and Study of the Properties of Chemical Substances*.—A laboratory course. Two three-hour periods. *Tu.*, *Th.*, at 1.30 or at 7. Two credits. Professor MUNROE, Assistant Professor SWETT.

4. *Assaying and Metallurgy of the Precious Metals*.—Carried on by the method used by the Government Assayers, the Laboratory being fitted up on the plan of that of the United States Mint. Twelve hours for three months. Professor MUNROE, Assistant Professor SWETT.

5. *Principles of Analysis*.—Lecture. One hour. One credit. Professor MUNROE.

6. *Metallurgy of Iron and Steel*.—A course of lectures and readings. *Tu.*, at 6.00. One credit. Professor MUNROE.

7. *Qualitative Analysis*.—A brief course intended primarily for students in engineering. Two three-hour periods. *Tu.*, *Th.*, at 1.30 or at 7. Two credits. Professor MUNROE, Assistant Professor SWETT.



*Second Section. For Undergraduates and Graduates*

20. *Qualitative Analysis*.—A laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Three three-hour periods. Three credits. Professor MUNROE, Assistant Professor PRICE, Assistant Professor SWETT, Mr. INGERSOLL.

21. *Quantitative Analysis*.—A laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Four three-hour periods. Four credits. Professor MUNROE, Assistant Professor PRICE, Assistant Professor SWETT, Mr. INGERSOLL.

23. *Organic Chemistry*.—Advanced course. Wed., Fri., at 4.50. Two credits. Professor MUNROE, Assistant Professor SWETT.

24. *Organic Chemistry*.—Advanced course. A continuation of Course 23. Th., Sat., at 6.00. Two credits. Professor MUNROE, Assistant Professor SWETT.

25. *Chemistry of the Carbon Compounds*.—A laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Four three-hour periods. Four credits. Professor MUNROE, Assistant Professor SWETT, Mr. LEPPER.

26. *Physical Chemistry*.—A lecture course designed to be an introduction to physical chemistry, and to treat of the modern theories of chemistry from the physical standpoint. In this course special attention is given to the ionic theory, electro-chemistry, the law of mass action, and the phase rule. Two hours. Two credits. Assistant Professor McNEIL.

27. *Stereo-Chemistry*.—This course deals with the arrangements of atoms in space from a theoretical standpoint, while the student is taught how to form models by which to illustrate their arrangements. Two hours. Two credits. Assistant Professor HILL.

28. *Biochemistry*.—A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vitro*. Three three-hour periods. Three credits. Assistant Professor PRICE, Mr. INGERSOLL.

*Third Section. Primarily for Graduates*

50. *Explosive Substances*.—Five credits. Professor MUNROE.

51. *Analytical Methods*.—Five credits. Professor MUNROE.

53. *Development of the Theory of the Constitution of the Natural Silicates*.—Five credits. Professor CLARKE.

55. *Special Researches in Electro-Chemistry*.—Five credits. Assistant Professor HOPKINS.

Students in Chemistry are invited to attend the meetings of the Chemical Society of Washington which are held on the second Thursday of each month from October to May, in the Assembly Hall of the Cosmos Club, at 8 p.m., and also the meetings of the Chemical Society of the George Washington University which is a most active and efficient student organization.

## CIVIL ENGINEERING

See Engineering.

## CLASSICAL LANGUAGES AND LITERATURES

CHARLES SIDNEY SMITH, Ph.D. .... Professor

## Greek

*First Section. Primarily for Undergraduates*

A. *Elementary Course*.—For students who have not taken Greek before matriculating. It aims to cover as much as possible of the entrance requirement in Greek, with the exception of Homer. *Mon., Wed., Fri.*, at 10.15. Three credits.

B. *Homer: Iliad I-IV*.—For students who have taken Course A and desire to prepare themselves to enter Course 1. Not given in 1915-16.

1. Herodotus (selections); Lysias (selected orations); Euripides (*Alcestis*); Greek prose composition. *Mon., Wed., Fri.*, at 2.45. Three credits.

2. Xenophon (*Memorabilia*); Thucydides (*Book VII*); Sophocles (*Antigone*). *Mon., Wed., Fri.*, at 11.15. Three credits.

*Second Section. For Undergraduates and Graduates*

20. Plato (selections, including the *Apology* and *Crito*); Aristophanes (*Clouds* or *Frogs*). *Tu., Th.*, at 1.45. Two credits.

21. Demosthenes (selected orations); Lucian (selected dialogues); Homer (selections). Not given in 1915-16.

## Latin

*First Section. Primarily for Undergraduates*

1. Livy (*Books I and XXI*); Cicero (*De Senectute*); Horace (*Odes* and *Epodes*); Latin prose composition. Open to students who have satisfied the admission requirements in elementary and advanced Latin. *Mon., Wed., Fri.*, at 3.45. Three credits.

2. Cicero and Pliny (selected Letters); Horace (*Satires* and *Epistles*); Martial (selections). *Mon., Wed., Fri.*, at 1.45. Three credits.



*Second Section. For Undergraduates and Graduates*

20. Tacitus (selections); Terence (Phormio); Plautus (Captivi). Not given in 1915-16.

21. Quintilian, Book X, and Horace, *Ars Poetica*; Catullus, Tibullus, and Propertius. *Tu., Th.*, at 11.15. Two credits.

22. *Advanced Latin Composition and Reading at Sight*.—Practice in Latin expression and style. *Th.*, at 2.45. One credit.

*Third Section. Primarily for Graduates*

The work in this Section is designed to afford discipline in the methods of philological criticism, with special reference to the interpretation of classical authors, and will include opportunities for original research on the part of competent students. In order to make the work as helpful as possible for those who expect to become teachers, the center of study each year will be one of the authors usually taught in the secondary schools. With the approval of the instructor, properly qualified Seniors may be admitted to these courses. The authors selected are as follows:

50. *Vergil and Roman Epic Poetry*.—Not given in 1915-16.

51. *Caesar, and the Roman Historians*.—Not given in 1915-16.

52. *Cicero, and Roman Oratory*.—Two hours. Three credits.

## Classical Literature

*First Section. Primarily for Undergraduates*

1. *General Survey of Classical Literature (in English)*.—This course is designed to give an outline of the development of the different departments of literature in ancient Greece and Rome, supplemented by selected readings, in translation, from the most important authors. This course is primarily intended for students who are not taking Greek or Latin and does not require a knowledge of those languages, and is open to all undergraduates as an elective. *Tu., Th.*, at 5. Two credits.

## ECONOMICS AND SOCIOLOGY

ROBERT RUSS KERN, A.B.....	Assistant Professor
L. RUSSELL ALDEN, A.M.....	Assistant Professor
FRANK RAY RUTTER, Ph.D.....	Lecturer
FRANK ANDREWS, A.B.....	Lecturer

*First Section. Primarily for Undergraduates*

1. *General Economics*.—An outline course in the principles of political economy, devoted mainly to the study of production and exchange under present-day conditions, followed by a study of the problems of rent, interest, wages, and profits, and including an examination of com-

petition, private property, and economic programs. *Mon., Wed., Fri.*, at 11.15. Three credits. Assistant Professor KERN.

2. Parallel with course 1. *Mon., Wed., Fri.*, at 5.50. Three credits. Assistant Professor KERN.

*Second Section. For Undergraduates and Graduates*

22. *General Sociology*.—An outline course in the principles of sociology, devoted mainly to the study of social origins and the development of existing social institutions, with special attention to social psychology. Two hours, first half-year. *Mon., Fri.*, at 5.00. One credit. Assistant Professor KERN.

23. *Modern Social Problems*.—A further analysis of modern social conditions with special studies of current questions in sociology. Prerequisite, the course in general sociology. Two hours, second half-year. *Mon., Fri.*, at 5.00. One credit. Assistant Professor KERN.

24. *The History of Economic Thought*.—A review of the development of economics as a science from the earliest times to the present. Lectures and library readings. Two hours, first half-year. Given in alternate years. Not given in 1915-16. Assistant Professor KERN.

26. *Public Finance*.—A course in the development of budgetary and fiscal methods and principles. The history and tendencies of public expenditure under the Federal and State governments. The theory of taxation; administration of public domains, and industries; public debts. Second half-year. *Tu., Th.*, at 5.00. One credit. Assistant Professor KERN.

27. *Money and Banking*.—The history and theory of money; the production of the precious metals; the theory of prices and measurement of price fluctuations; monetary systems; the relation of the Treasury system to our money supply; the theory of credit and banking; the national bank system of the United States and the banking system of foreign nations. First half-year. *Tu., Th.*, at 5.00. One credit. Assistant Professor KERN.

28. *Economic Problems*.—An advanced course devoted to a more thorough study of the problems developed in the general course in economics. Research and preparation of papers to be presented to the class for discussion and criticism. Credit for course 1, General Economics, is requisite for admission to this course. Not given in 1915-16. Assistant Professor KERN.

33. *Commercial and Maritime Law*.—An outline of the principles of the law relating to commercial transactions generally, including those peculiar to the sea, with more especial reference to the subjects of contracts, sales, bailments, agency, partnership, negotiable instruments, and common carriers. *Tu., Th.*, at 5.50. Two credits. Assistant Professor ALDEN.

36. *Commercial Geography and Economic Resources*.—During the first term, a general survey is made of the products, industries, and



commerce of the United States and of the principal foreign countries. This survey is supplemented during the second term by a detailed study of agriculture, mining, and manufacturers throughout the world, but with special reference to the United States; separate treatment of each important crop and branch of manufactures, with inquiry into the causes of the localization of industry. *Mon., Fri.*, at 5.50. Two credits. Dr. RUTTER.

37. *Transportation*.—Development and control of land and water transportation in the United States and Europe. Railroad construction; competition; combination; regulation; rates; discrimination; government ownership. Inland waterways. Ocean carriage; subsidies; combination; rebates. Suez and Panama Canals. Two hours, second half-year. One credit. Not given in 1915-16.

38. *International Commercial Policy*.—Comparative study of the tariff systems of the principal foreign countries. Interrelation of tariffs; commercial treaties; most-favored-nation treatment; reciprocity and colonial preference; discrimination and countervailing duties; tariff wars. Commercial relations of the United States with foreign countries; need of foreign markets for increased output of manufactures. Two hours, first half-year. One credit. Not given in 1915-16.

40. *Economic History of the United States*.—Development of agriculture from staple crops to diversified farming. Settlement of public lands; immigration. Introduction of manufactures; development since the Civil War; characteristics. Commerce; agricultural products giving way to manufactured articles. Tariff history and policy. *Tu., Th.*, at 5.00, first half-year. One credit. Dr. RUTTER.

41. *Statistics*.—Introduction to main sources of statistical information; margin of error; practical tests in the use of statistics of population, agriculture, manufactures, commerce, transportation, finance, wages, and prices. Methods of collection in the United States and Europe. *Tu., Th.*, at 5.50, second half-year. One credit. Dr. RUTTER.

43. *Combinations, Trusts*.—A discussion of the conditions which have favored the growth of large business combinations, the nature of their organization, their influence upon prices and productive efficiency, and the regulation and supervision of them. First half-year. *Tu., Th.*, at 5.50. One credit. Assistant Professor KERN.

44. *Labor Problems*.—A brief sketch of the labor movement in the United States and of the aims and methods of trade unions, followed by a discussion of such problems as: child labor; dangerous occupations; workingmen's insurance against sickness, old age, accidents, and unemployment; strikes and industrial conflicts; conciliation and arbitration; collective bargaining. Second half-year. *Tu., Th.*, at 5.50. One credit. Assistant Professor KERN.

*Third Section. Primarily for Graduates*

51. *Seminar in Sociology*.—A research course for the detailed investigation of special sociological problems, suitable for those who are engaged in original investigation or in the preparation of a thesis. Hours to be arranged. Three credits. Assistant Professor KERN.

## EDUCATION

WILLIAM CARL RUEDIGER, Ph.D.....	Professor
WILLARD STANTON SMALL, Ph.D.....	Lecturer
ARTHUR DEERIN CALL, A.M.....	Lecturer
MARIETTA STOCKARD, A.B.....	Lecturer
HARRIET UNDERWOOD, A.B.....	Assistant

*Second Section. For Undergraduates and Graduates*

20a. *Principles of Teaching*.—A comprehensive course in the principles underlying the teaching process in its intellectual, emotional and motor phases. Special attention is given to making teaching concrete and meaningful. First half-year. *Mon., Wed., Fri.*, at 11.15. One and one-half credits. Professor RUEDIGER.

20b. *Principles of Education*.—A comprehensive course in the bases, aims, values and essential content of education as revealed by biological, psychological, sociological and ethical principles. Second half-year. *Mon., Wed., Fri.*, at 11.15. One and one-half credits. Professor RUEDIGER.

21a. *Principles of Teaching*.—A brief course in the psychological and logical principles underlying the teaching process. First half-year. *Sat.* 9.15-11.15. One credit. Professor RUEDIGER.

21b. *Principles of Education*.—A brief course in the bases, aims, values and essential content of education as revealed by biological, psychological, sociological and ethical principles. Second half-year. *Sat.* 9.15-11.15. One credit. Professor RUEDIGER.

(Courses 20 and 21 should be preceded or accompanied by general psychology. Course 21 is designed especially for teachers in service.)

22. *History of Education*.—A general course in the historical development of educational theory and practice. *Mon., Wed.*, at 4.00. Two credits. Professor RUEDIGER.

23. *Child Study*.—Not given in 1915-16. Dr. SMALL.

24. *School Sanitation and Hygiene*.—A survey of the relations of education and health, including: The function of the school in promoting health; physical examination of children; medical inspection; physical education; diseases and defects incident to school life; the organization of instruction as related to fatigue; defective children; schoolhouse construction and sanitation. Lectures, reference work, and reports. *Th.*, at 5.00. One credit. Dr. SMALL.



25. *Secondary Education*.—After sketching the meaning and significance of secondary education as revealed by educational theory, by the secondary schools of Germany, France, and England, and by the history of secondary education in America, the course will consider in some detail the educational values, essential content, and methods of teaching the various high school branches. The problems of essential minima, of the connection of the studies with life, and of the development of initiative in the student will be emphasized. *Tu., Th.*, at 4.00. Two credits. Dr. SMALL.

27. *School Administration*.—Not given in 1915-16. Dr. SMALL.

28. *Experimental Education*.—A laboratory course on processes of learning, transfer of practice, association, memory, etc. Special emphasis will be laid upon practical work with the Binet and other mental tests. *Th.*, 4.00-5.50. One credit. Professor RUEDIGER and Miss UNDERWOOD.

29. *Educational Story Telling*.—Study of type stories, adaptation of stories, practical story telling. It is the purpose of the course to develop a basis for the selection and presentation of suitable children's literature, taking into consideration the various stages of the child's development.

Lectures, required reading and reports. *Mon. and Wed.*, at 4.00. Two credits. Miss STOCKARD.

30. *Story Telling and Children's Literature*.—Study of Epics—Iliad, Odyssey, and Kalevalla. Retelling, possible dramatization.

Part of the course will be given to a discussion of reading and reading books with a view to supplementing with stories and units of literature. It will be the purpose to work toward a solution of the problem of developing in the child a higher appreciation of the best in literature and a real love of books through his school reading. The course will extend and supplement Course 29 but will be open to all upper class students. Not given in 1915-16. Miss STOCKARD.

(Courses 29 and 30 are given in alternate years.)

31. *Elements of Teaching*.—This course will deal briefly with the general principles involved in self culture, our moral ideal, the state and society, the problem of study, the teaching process, lesson assignment, the recitation, and the art of questioning. The principles developed will be applied to the teaching of reading, English, and American history. The course satisfies the requirement in the Principles of Teaching. *Tu.*, at 5.00. One credit. Mr. CALL.

32. *Adolescence*.—Not given in 1915-16. Dr. SMALL.

33. *Ethical Principles in Education*.—The aim of this course is to promote a deeper professional spirit by stimulating the professional cast of mind. Some of the topics to be studied are: the meaning of ethics; maxims for an ethical code; ethical elements in self-culture; various ethical interpretations of the moral ideal; ethical elements in the advancement of truth; ethics of veracity; the ethics of example; the ethics

of charity; ethics and the solution of crime; the ethical value of the state; the ethical interpretation of society; the rise of moral enthusiasm; ethical values in public education. Not given in 1915-16. Mr. CALL.

(Courses 31 and 33 are given in alternate years.)

34. *Observation*.—Observation of experienced teachers, under guidance, in the elementary and secondary schools of the city. The course should normally be taken in the junior year. One credit. Professor RUEDIGER.

35. *Practice Teaching*.—Opportunity for practice teaching under supervision and criticism is provided in the University Demonstration School. The course should be normally taken in the senior year. One credit. Professor RUEDIGER.

(The students taking courses 34 and 35 will meet together once a week for conference and discussion.)

### Third Section. Primarily for Graduates

50. *Seminar in Education*.—The theme for 1915-16 will consist of a consideration of the aims, problems, and achievements of mental tests and educational measurement. Recent books and periodical literature in this field will be reviewed. It is recommended that Course 28 be taken in correlation. Open to qualified undergraduates. *Tu. and Th.*, at 5.00, or at an hour to be arranged. Three credits. Professor RUEDIGER.

## ELECTRICAL ENGINEERING

See Engineering.

## ENGINEERING

EDWIN VIVIAN DUNSTAN, C.E.....	Professor
OSCAR ALEXANDER MECHLIN, C.E.....	Professor
CHARLES WARD MORTIMER, M.E.....	Assistant Professor
NATHAN WASHINGTON DOUGHERTY, M.C.E.....	Assistant Professor
ROBERT WILBUR MORSE, S.B.....	Assistant Professor
HAYNER HASKELL GORDON, E.E., Ph.D.....	Instructor
MARK RITTENHOUSE WOODWARD, E.E.....	Instructor
LEONARD SMITH DOTEN, B.S. in C.E.....	Instructor

## Applied Mathematics

### Second Section. For Undergraduates and Graduates

20. *Analytical and Applied Mechanics*. (1) Statics: including composition, resolution and equilibrium of forces; center of gravity; moment of inertia. (2) Kinematics and Kinetics: including rectilinear, curvilinear and rotary motion; dynamics of machinery; work and energy; friction; impact. Four hours, first half-year. Two credits. Professor DUNSTAN.



21. *Hydraulics*.—The theoretical principles of hydraulics; including hydrostatics, flow through orifices, over weirs, through pipes and in open channels, and the dynamic pressure of water. Four hours, first half-year. Two credits. Mr. DOTEN.

22. *Mechanics of Materials and Theory of Elasticity*.—Including elastic and ultimate strength and deformation: simple cantilever and continuous beams, columns, torsion; combined stresses; compound columns and beams, including reinforced concrete; resilience; work; fatigue; mathematical theory of elasticity. Four hours, second half-year. Two credits. Professor DUNSTAN.

#### Civil Engineering

##### *First Section. Primarily for Undergraduates*

1. *Surveying and Mapping*.—This course includes recitations, field and drawing room work. The recitations will cover the theory, adjustment and use of instruments; land, city, topographic, mine, hydrographic and geodetic surveying. The field work includes the adjustment of instruments, the use of the level, transit and compass. Data is taken for a map covering an area of about one-quarter square mile. The computations cover problems in the closing of traverses, computing areas, reduction and plotting of field notes. Two recitations a week; field and drawing room work equivalent to one three-hour period a week throughout the year. Three credits. Assistant Professor DOUGHERTY.

2. *Railroad Engineering*.—This course includes recitations, field and drawing room work. The recitations cover railroad curves and earthwork, methods of location and construction of railway lines. The field work consists in a preliminary and location survey of about one mile of railway; the laying out of circular and transition curves, etc. The computations and mapping consists of making an estimate of quantities and cost of a piece of line, making maps, profiles and a mass diagram. Two lecture-recitations and one three-hour field or drawing period a week throughout the year. Three credits. Assistant Professor DOUGHERTY.

3. *Highways and Pavements*.—This course comprises the study of highway location, construction and maintenance; the various methods of surfacing; the materials used and the standard tests of these materials. A study is also made of the methods of street paving, street grades, etc. Two hours a week during the second half-year. One credit. Assistant Professor DOUGHERTY.

4. *Materials of Construction*.—A course in the study of the chemical and physical properties of: stone, brick, lime, wood, iron, steel and a few of the minor alloys. Stress is laid on the manufacture and the properties of the materials that affect their use in engineering construc-

tion. The class room work is supplemented by tests in the cement laboratory and on the 200,000 pound Olsen testing machine in the testing laboratory. Two lecture-recitations and one laboratory period a week during the first half-year. One credit. Assistant Professor DOUGHERTY.

5. *Surveying Instruments*.—A two-months' course for Mechanical and Electrical Engineering students, covering the use of the compass, transit, and level. Lectures and field exercises, two hours. One-half credit. Assistant Professor DOUGHERTY.

6. *Foundations*.—A two-months' course for Mechanical and Electrical Engineering students, covering the general principles of foundation construction and the materials used. Two hours. One-half credit. Assistant Professor DOUGHERTY.

8. *A Course in Practical Astronomy for Civil Engineering Students*.—Special attention is given to the methods of determining latitude, longitude, azimuth and time with the engineer's transit; observations for each being a required part of the course. Two lecture-recitation periods during one term. One credit. Assistant Professor DOUGHERTY.

#### *Second Section. For Undergraduates and Graduates*

20. *Concrete and Masonry Construction*.—A study in the principles of concrete construction, the theory of beams and columns, unit stresses used in design, methods of reinforcing and the design of forms. In masonry a study is made of brick and stone masonry, theory of foundations, piles and pile driving, caissons, coffer-dams, etc. The design of bridge piers, abutments, retaining walls, culverts and other similar structures. Two lecture-recitations and one design period a week throughout the year. Three credits. Assistant Professor DOUGHERTY.

21. *Hydraulic Engineering*.—The design and construction of water-power plants and irrigation works. Flow of rivers; rainfall and runoff; methods of development; hydraulic motors; power transmission. Irrigation plans; distributing system; water rights and irrigation law. Four lectures and one design period, second term. Two and one-half credits. Mr. DOTEN.

22. *Structures*.—A course covering the determination of stresses in framed structures by graphical and by analytical methods. The first term is devoted to beams and roof trusses; the second to bridge trusses under uniform and wheel loads. Three lectures and two design periods. Five credits. Professor DUNSTAN.

23. *Structures*.—Design of structures in timber and steel. About two months is devoted to the design of timber trestles, roof trusses and slow-burning building construction; the remainder of the year to steel design of mill and office buildings; girder, riveted and pin-connected bridges. Three lectures and two design periods. Five credits. Professor DUNSTAN.



24. *Sanitary Engineering*.—Water supply: the collection, storage and distribution of water; the design and construction of dams, reservoirs and storage tanks; construction and maintenance of water distributing systems; pumping machinery; quality of water; interpretation of water analyses; sedimentation and aëration of water; sand filtration; mechanical filtration; chemical treatment of water; the relation of water supply to infectious diseases.

Sewerage: house plumbing, heating and ventilation; sewerage and drainage systems; methods of disposal of sewage and trade wastes; treatment of sewage; garbage and refuse disposal. Three lectures and one design period. Four credits. Mr. DOTEN.

*Third Section. Primarily for Graduates.*

50. *Reinforced Concrete Structures*.—Theory and design: buildings, bridges, retaining walls, dams, tanks, etc. One lecture and two design periods. Three credits. Professor DUNSTAN.

51. *Advanced Steel Structures*.—Theory and design of suspension, cantilever, movable and arch bridges. One lecture and two design periods. Three credits. Professor DUNSTAN.

52. *Architectural Engineering*.—Mechanical equipment of buildings; calculations and design of the plumbing, water supply, heating, ventilating, and electrical equipment. Two lectures and one design period. Three credits. Professor MECHLIN.

53. *Railroad Engineering*.—An advanced course in railroad location, construction, and maintenance of way. It must be preceded by Civil Engineering course 2. Three credits. Assistant Professor DOUGHERTY.

**Electrical Engineering**

*First Section. Primarily for Undergraduates*

1. *Elementary Mathematical Theory of Electricity and Magnetism*.—Elementary electricity and magnetism is studied with special attention to the needs of engineering students. The phenomena accompanying static electricity are noted. Problems illustrating the theory and having practical application are required to be solved. Two hours. Two credits. Assistant Professor MORTIMER.

2. *Elements of Electricity; Direct Current Motors and Generators; Design Work*.—Elements of electricity are studied during the first term and especial emphasis is laid upon the principles underlying the flow of currents. During the second term a study is made of direct current generators and motors, covering the laws of the magnetic circuit as applied to the dynamo. The course includes the design of electrical machinery and apparatus. An introductory study of alternating currents is also begun. Numerous problems are assigned throughout the course. Three hours. Three credits. Assistant Professor MORTIMER.

4. *Electrical Measurements*.—A laboratory course for Juniors. Selected experiments. Foster's Hand-book and special laboratory notes

are used for reference. Two three-hour periods, first half-year. One credit. Assistant Professor MORTIMER and Mr. WOODWARD.

5. *Electrical Laboratory*.—Experiments and tests involving the operation of direct-current dynamos and motors, including tests of motors in service, operating elevators, street cars, and machinery of various kinds. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering." Two three-hour periods, second half-year. One credit. Assistant Professor MORTIMER and Mr. WOODWARD.

6. *Industrial Electricity*.—A practical course intended for Juniors in Civil Engineering, embracing the selection and operation of electrical machinery, electrical railways and other applications of electric motors. Two hours, first half-year. One credit. Mr. WOODWARD.

7. *Electrical Engineering*.—A course in theoretical and applied electricity intended for Seniors in Mechanical Engineering. It embraces the selection and operation of electrical machinery, the location, construction, and operation of power plants, electric railways and transmission lines, the use of electric motors for driving machinery, and the working of storage batteries, elevators, hoists, and cranes. Three hours. Three credits. Mr. WOODWARD.

8. *Electrical Design*.—A course for Seniors in Electrical Engineering, embracing calculation and design of electrical machinery and accessories, including switchboards, rheostats, instruments, and arrangement of same. One credit.

#### *Second Section. For Undergraduates and Graduates*

21. *Alternating Current Theory and Machinery*.—A course for Seniors in Electrical Engineering, covering the principles of single as well as polyphase currents, including study of machines, circuits, transformers, etc. Four hours. Four credits. Assistant Professor MORTIMER.

22. *Electrical Distribution*.—A course for Seniors in Electrical Engineering, covering the whole field of distribution of electricity for light and power. Text-book: Ferguson's Elements of Electrical Transmission. One hour. One credit. Assistant Professor MORTIMER.

23. *Electrical Applications*.—A course for Seniors in Electrical Engineering, covering the more important applications of electricity, such as motive power, including elevators, hoists and machine drive, telephony, telegraphy, electro-metallurgy, etc. One hour. One credit. Mr. WOODWARD.

24. *Advanced Laboratory Work for Seniors in the Electrical Engineering Course*.—Covers test and experimental work with direct and alternating currents, tests of machines, circuits, transformers, circuits containing inductance and capacity, measurement of power in alternating current circuits, plotting of curves, etc. Text-book: Sever and Townsend's Laboratory and Factory Tests in Electrical Engineering, with Foster's Electrical Engineer's Hand-book for general reference. Two three-hour periods. Two credits. Assistant Professor MORTIMER.



25. *Inspection of Plants and Industrial Works.*—In the vicinity of Washington and Baltimore are a number of modern electric lighting and street railway plants, telephone exchanges, telegraph operating rooms, Government laboratories devoted to special work, etc., which afford students of Electrical Engineering an opportunity to familiarize themselves with nearly all types of apparatus in use. The visits are followed by class discussion based on written description submitted by the students.

26. *Electric Lighting and Illumination.*—A course for Seniors in Electrical Engineering covering the subject of electric lighting and illumination, including detailed study of different types of lamps, shades, arrangement of light sources, effect of walls, etc. Two hours. Two credits. Mr. WOODWARD.

27. *Electric Railways.*—A course for Seniors in Electrical Engineering covering the theory and practice of modern, direct and alternating current railways. Two hours, second half-year. One credit. Assistant Professor MORTIMER.

28. *High Frequency Current.*—A lecture course covering the theory of high frequency and oscillatory currents and their application to wireless telegraphy and telephony. The condenser discharge, the theory of resonance in coupled circuits, and electromagnetic waves will be treated. The design of wireless telegraph and telephone apparatus will also be discussed. The class will meet in the laboratory from time to time to familiarize themselves with the use of wireless apparatus. One period. One credit. Dr. GORDON.

Juniors and Seniors in Electrical Engineering are expected to attend the monthly meetings of the Washington Branch of the American Institute of Electrical Engineers.

### *Third Section. Primarily for Graduates*

53. *Advanced Course in Polyphase Currents.*—Three credits. Assistant Professor MORTIMER.

54. *Advanced Laboratory Work, Alternating (including Polyphase) Current Apparatus.*—Three credits. Assistant Professor MORTIMER.

### **Graphics**

#### *First Section. Primarily for Undergraduates*

1. *Mechanical and Freehand Drawing.*—A general course embracing the care and use of instruments; orthographic and isometric projections; sections and intersections; curve plotting; sketching of simple machine details; freehand lettering; principles of working drawings. Two three-hour periods. Two credits. Assistant Professor DOUGHERTY.

2. *Advanced Mechanical Drawing.*—A course in working drawings especially designed for Electrical and Mechanical Engineering students. Drawing-room rules and practice; conventional forms and standards;

arrangement of views and sections; freehand shop-sketches; detailing from sketches, models and general drawing; proportioning by empirical formulas. Two three-hour periods. Two credits. Assistant Professor DOUGHERTY.

8. *Descriptive Geometry*.—A study of the representation of lines, surfaces, and solids, and of their relations; tangencies, intersections, and developments; warped surfaces; shades and shadows; original construction problems. Two lectures and one drawing period. Three credits. Assistant Professor DOUGHERTY.

#### Mechanical Engineering

##### *First Section. Primarily for Undergraduates*

1. *Mechanism*.—A course in the systematic study of the kinematics of machinery, in which mechanical movements are reduced to scientific analysis. Carefully developed problems and diagrams of changes of position and speed in mechanisms are constantly used.

Some attention is given to the design of gear teeth, and twenty-five hours in the second term are devoted to valve gears for steam engines. Three lectures and one drawing period. Four credits. Assistant Professor MORSE.

6. *Engineering Drawing*.—This course provides for the application of the principles taught in the courses of Mechanism and Steam Engineering to specific problems. Practice is given in the design of valve gears and quick return motions, and in the determination of velocity diagrams for special engine and other linkages. There is also included the complete working drawings for a steam boiler. Two three-hour periods. Two credits. Assistant Professor MORSE.

7. *Machine Design*.—This course is an application of principles already acquired to problems in design, each student being required to complete every detail of the design undertaken.

The subjects taken as design problems are:

The complete design of a horizontal single cylinder gas engine, or the design of a steam boiler, a series of shaft couplings, and a fly wheel.

The constructive details and calculations are discussed and the limitations of theoretical and empirical formulas pointed out. One lecture-recitation hour and five hours in the drawing room. Two credits. Assistant Professor MORSE.

9. *Engineering Laboratory*.—A course of practical work in testing general engineering apparatus for efficiency. The work consists in indicating steam engines; determining the evaporative efficiency of boilers; tests on the strength of materials; measurement of the flow of water; gas-engine brake tests; refrigeration tests, and fuel value determinations. Two three-hour periods, second half-year. One credit. Assistant Professor MORSE and Dr. GORDON.



10. *Engineering Laboratory*.—This course is a completion of Course 9. Two three-hour periods. Two credits. Assistant Professor MORSE and Dr. GORDON.

*Second Section. For Undergraduates and Graduates*

20. This course deals with the principles of thermo-dynamics; the properties of gases and vapors, especially steam, and the flow of steam through nozzles. The application of the above principles is discussed and the simple and compound steam engine and the steam turbine are studied. Three hours, first half-year. One and one-half credits. Dr. GORDON.

21. *Boilers and Power Plant Accessories*.—This course is devoted to a study of boilers, condensers, feed pumps, economizers, stokers, and other power-plant accessories. The design of power plants will be discussed. Three hours, second half-year. One and one-half credits. Dr. GORDON.

22. *Gas Engines and Compression and Refrigeration Machinery*.—This course deals with the theory and practice concerning the internal combustion motor. During the second half of the term the theories and principles involved in compression machinery and artificial refrigeration will be discussed. Three hours, second half-year. One and one-half credits. Dr. GORDON.

23. *Hydraulic Machinery*.—This course provides for an elementary study of hydraulic prime movers and pumping machinery. It includes a discussion of the theory and design of turbines and turbine blades for low and high heads, and turbine governors.

The course will also treat of impulse wheels; water motors of the piston type; machinery for the utilization of hydraulic pressure; hydraulic pressure pumps, and hydraulic presses; hydraulic tools; pumps operated by steam, electricity, or power; and high duty pumps and water meters. Two hours, second half-year. One credit. Assistant Professor MORSE.

24. *Cotton Machinery and Machine Tools*.—A study of the mechanisms found in cotton machinery and machine tools. Two hours. Assistant Professor MORSE.

26. *Dynamics of Machinery*.—A course including a number of the principal applications of dynamics to moving machinery, such as governors, fly-wheels, and the effect of the reciprocating parts of the steam engine. Two hours. Two credits. Assistant Professor MORSE.

27. *Power-Plant Design*.—This course provides for the design with complete plans and specifications of a power plant of industrial proportions by the student. One lecture-recitation hour and two three-hour drawing periods, first half-year. One and one-half credits. Dr. GORDON.

28. *Industrial Management*.—A course dealing with the business systems of manufacturing establishments.

The work includes a study of the organization and relations of the various departments of an industrial establishment, both in the office and in the workshop. It also discusses the conduct of accounts, the

method of superintendence and of compensating labor, the determination of the cost of production, and the effect on costs of different systems of distributing indirect expenses. Two hours, second half-year. One credit. Assistant Professor MORSE.

## ENGLISH

WILLIAM ALLEN WILBUR, A.M.	Professor
RICHARD COBB, A.B.	Assistant Professor
GERTRUDE R. BRIGHAM, A.B.	Assistant

*First Section. Primarily for Undergraduates*

1. *English Rhetoric*.—A study of the principles of self expression through language with practice in composition. Tu., Th., Sat., at 10.15. Three credits. Professor WILBUR.

2. *English Rhetoric*.—Parallel with Course 1. Mon., Wed., Fri., at 5.00. Three credits. Professor WILBUR.

NOTE.—Credit for Course 1 or 2 is requisite for admission to any other course in English except 5.

3. *Humanistic Studies, 1915-16*.—British and American Eloquence, Fulton and Trueblood; The Chief American Poets, Page. Tu., Th., Sat., at 9.15. Three credits. Professor WILBUR.

4. *Humanistic Studies, 1915-16*.—Past and Present, Carlyle; The Federalist, Hamilton, Jay and Madison; The Prelude, Wordsworth; Drake, Alfred Noyes. Mon., Wed., Fri., at 5.50. Three credits. Professor WILBUR.

5. *General Survey of English and American Literature*.—Tu., Th., at 5.00. Two credits. Assistant Professor COBB.

*Second Section. For Undergraduates and Graduates*

20. *English Composition*.—Tu., Th., at 11.15. Two credits. Assistant Professor COBB.

21. *The English Novel*.—Tu., Th., at 2.45. Two credits. Assistant Professor COBB.

22. *Shakespeare, 1915-16*. The Tragedies. Mon., Wed., Fri., at 9.15. Three credits. Professor WILBUR.

23. *Shakespeare, 1914-16*.—The Comedies.

(The Temple edition of Shakespeare is recommended.)

*Third Section. Primarily for Graduates*

52. *The Short Story*.—Tu., Th., at 5.00. Three credits. Professor WILBUR.

## FRENCH

See Romance Languages.

## GEOLOGY AND MINERALOGY

GEORGE PERKINS MERRILL, Ph.D.	Professor
RAY SMITH BASSLER, Ph.D.	Professor



*First Section. Primarily for Undergraduates*

1. *Mineralogy*.—Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be considered as introductory to the courses in either systematic or economic geology. *Mon., Fri.*, at 5.00. Two credits. Professor BASSLER.

2. *Geology*.—Systematic geology; dynamical, structural and stratigraphical. The course is designed to form a part of a general-culture course, or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of geology, having especial reference to stratigraphy and correlation. Text-books: Blackwelder and Barrows' *Elements of Geology*; Merrill's *Rocks, Rock Weathering, and Soils*. *Mon., Fri.*, at 5.50. Two credits. Professor BASSLER.

*Second Section. For Undergraduates and Graduates*

20. *Economic Geology*.—[Geology 1 and 2 and Chemistry 1 are prerequisite for this course.] The course covers the subjects comprised under: (1) Mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (2) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, antimony, etc.; and (3) the non-metallic minerals as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, pigments, gems, ornamental stones, building stones, limes, cements, and mineral waters. Text-books: Lindgren's *Mineral Deposits*. Merrill's *Stones for Building and Decoration* and *The Non-Metallic Minerals*. Given in alternate years. Two credits. Professor MERRILL.

21. *Paleontology*.—A course in lecture and laboratory work on the biological and geological relations of the more important types of animals and plants, with especial reference to their value in stratigraphic geology. Three credits. Professor BASSLER.

*Third Section. Primarily for Graduates*

50. *Advanced Geology and Paleontology*.—The student in this course may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject. Two credits. Professor BASSLER.

## GERMANIC LANGUAGES AND LITERATURE

HERMANN SCHOENFELD, Ph.D., LL.D.....Professor  
 ALFRED FRANCIS WILLIAM SCHMIDT, A.M.....Professor

*First Section. Primarily for Undergraduates*

1. *Elementary*.—The essentials of German grammar; translation of prose and poetry; beginning conversation; composition and dictation. This course is open only to beginners, and the work done is equivalent to that of a two years' course in high schools and academies of good standing. *Tu., Th., Sat.*, at 11.15. Three credits. Professor SCHOENFELD.

2. Parallel with Course 1. *Tu., Th., Sat.*, at 5.00. Three credits. Professor SCHMIDT.

3. Selected texts from the best contemporary authors will be read and one or more of the German classics carefully studied. The work in grammar and composition done in elementary German will be continued, with special emphasis on syntax, word-formation, and the relationship of German and English; conversation continued. This course is equivalent to the advanced German of the admission requirements, and it is open only to students who have passed Course 1 or 2, or have satisfied the admission requirement in elementary German. *Mon., Wed., Fri.*, at 11.15. Three credits. Professor SCHOENFELD.

4. Parallel with Course 3, except that in the second term scientific German is read. *Tu., Th., Sat.*, at 5.50. Three credits. Professor SCHMIDT.

5. Advanced course in German syntax; principal difficulties of the language: idioms; synonyms; extensive translations of English prose into German; essays; selected advanced prose; classical reading and literature; German history. Open to students who have passed Course 3 or have satisfied the admission requirement in advanced German. *Mon., Wed., Fri.*, at 1.45. Three credits. Professor SCHOENFELD.

6. Parallel with Course 5, with special reference to advanced students both in the historico-political and the scientific departments. *Tu., Th.*, at 5.00. Two credits. Professor SCHOENFELD.

*Second Section. For Undergraduates and Graduates*

20. *Outline of the History of German Literature and Civilization from the Teutonic Origins to the Renaissance and Reformation*, with special reference to the emerging of the Germanic, Romance, and Slavic races.—Lectures, extensive readings of the classics of the first period of bloom; advanced practice in writings, essays. *Mon. Wed., Fri.*, at 10.15. Three credits. Professor SCHOENFELD.

21. *German Literature of the Second Classic Period at its Zenith*.—Goethe's and Winckelmann's influence on German art; with special reference to the modern German drama; classical ballad and lyric poetry;



renaissance of the German volkslied in the eighteenth and nineteenth centuries. *Tu., Th., Sat.*, at 10.15. Three credits. Professor SCHOENFELD.

22. *The Currents of German Literature from the beginning of the Nineteenth Century until 1870.*—Romanticism, its social and political aspects; Modern German Drama, with special emphasis on Kleist, Grillparzer, Hebbel; Lyrics and Ballads: Uhland and Heine. *Tu., Th., Sat.*, at 10.15. Three credits. Not given in 1915-16. Professor SCHOENFELD.

### Third Section. Primarily for Graduates

50. *Seminar in the History of Middle High German Literature*, with special reference to the Epic and Lyrical Poetry in the Twelfth and Thirteenth Centuries. Introduction to scientific methods of historical and literary research in the Nibelungenlied and the Gudrunsaga. Three credits. Professor SCHOENFELD.

51. *Gothic.*—Introduction to comparative Indo-European Grammar. Three credits. Professor SCHMIDT.

52. *Old High German.*—The development of the German language. Three credits. Professor SCHMIDT.

Only one of the foregoing two courses (51, 52) is given in any one year.

For notice of the Richard Heinzel Germanic Library, see page 40.

### GRAPHICS

See Engineering.

### GREEK

See Classical Language.

### HISTORY

CHARLES CLINTON SWISHER, Ph.D., LL.D.....	Professor
LESLIE C. McNEMAR, A.B.....	Assistant Professor
LEVI RUSSELL ALDEN, A.M.....	Assistant Professor
GEORGE MORTON CHURCHILL, Ph.D.....	Assistant Professor

### First Section. Primarily for Undergraduates

1. *Mediaeval History.*—A history of the settlement of the Germanic tribes in the territory of the Empire, with a study of feudal institutions, extending through the movements of the Crusades; texts, with assigned readings. First half-year. *Mon., Wed., Fri.*, at 2.45. One and one-half credits. Professor SWISHER.

2. *Mediaeval History.*—A history of the evolution of national government extending through the periods of the Renaissance and the Protestant Revolution; texts and assigned readings. Second half-year. One and one-half credits. *Mon., Wed., Fri.*, at 2.45. Professor SWISHER.

3. *Modern European History*.—A study of the European States under the new conditions resulting from the discovery of America and the opening of the oriental trade routes, extending through the period of the French Revolution; texts, lectures, and collateral readings. First half-year. *Mon., Wed., Fri.*, at 3.45. One and one-half credits. Professor SWISHER.

4. A continuation of the preceding through the revolutionary movements of the nineteenth century, with a more detailed study of recent issues; texts, lectures, and collateral readings. Second half-year. *Mon., Wed., Fri.*, at 3.45. One and one-half credits. Professor SWISHER.

5. *Mediæval History*.—Parallel with Course 1. First half-year. *Tue., Th., Sat.*, at 5.50. One and one-half credits. Professor SWISHER.

6. *Mediæval History*.—Parallel with Course 2. Second half-year. *Tu. Th. Sat.*, at 5.50. One and one-half credits. Professor SWISHER.

#### *Second Section. For Undergraduates and Graduates*

25. *English Constitutional History*.—A history of the evolution of parliamentary government, with incidental study of social and industrial development. *Mon., Wed., Fri.*, at 5.00. Three credits. Dr. CHURCHILL.

30. *American Constitutional History*.—A history of the origin and development of the Federal Constitution of 1789, with a study of its interpretation under the pressure of party issues. Lectures, text-books, and collateral readings. *Tu., Th., Sat.*, at 5.00. Three credits. Not given in 1915. Professor SWISHER.

31. *Modern European History*.—A study of the French Revolution and subsequent reaction extending the Revolution of 1848. First half-year. *Tu., Th., Sat.*, at 5.00. One and one-half credits. Professor SWISHER.

32. *Modern European History*.—From 1850 to the present time. Second half-year. *Tu., Th., Sat.*, at 5.00. Professor SWISHER.

33. *Current History*.—A discussion of political questions of the day, with special reference to their origin and historical significance. Lectures throughout the year. *Sat.*, at 11.15. One credit. Professor SWISHER.

#### *Third Section. Primarily for Graduates*

54. *Seminar Work*.—The results of individual research, conducted by graduate students upon assigned topics, will be discussed at the weekly meetings of the seminars of American and Modern European History.

Undergraduate students qualified by previous historical study, who desire to do intensive work with a view to gaining fuller information upon special periods or facility in the use of historical materials, may, with the approval of the instructor, be admitted to the historical seminars. Regular meeting of Seminar, Saturday, 12.15-2.15. Three credits. Professor SWISHER.



## INTERNATIONAL LAW AND DIPLOMACY

See Political Science.

## LATIN

See Classical Languages.

## MATHEMATICS

HOWARD LINCOLN HODGKINS, Ph.D.....	Professor
ASAPH HALL, JR., Ph.D.....	Professor
H. GRANT HODGKINS, A.B.....	Instructor

*First Section. Primarily for Undergraduates*

3. *College Algebra; Solid Geometry; Plane Trigonometry*.—Algebra is studied during the first half-year, solid geometry during February and March, and trigonometry during April and May. *Mon., Wed., Fri.*, at 9.15. Three credits. Professor HODGKINS.

4. *Algebra; Plane Trigonometry*.—Algebra is studied until April 1, and trigonometry during April and May. *Mon., Wed., Fri.*, at 5.00. Three credits. Mr. HODGKINS.

6. *College Algebra; Solid Geometry; Plane Trigonometry*.—Parallel with Course 3. *Mon., Wed., Fri.*, at 5.50. Three credits. Mr. HODGKINS.

9. *Trigonometry; Analytic Geometry*.—Trigonometry until Jan. 1, analytic geometry for the remainder of the session. The completion of Course 3, 4, or 6 is requisite for admission to this course. *Mon., Wed., Fri.*, at 10.15. Three credits. Professor HODGKINS.

12. *Trigonometry; Analytic Geometry*.—Parallel with Course 9. *Mon., Wed., Fri.*, at 5.50. Three credits. Professor HODGKINS.

*Second Section. For Undergraduates and Graduates*

20. *Differential and Integral Calculus; Elements of differential equations*. *Tu., Th., Sat.*, at 5.00. Three credits. Professor HODGKINS.

21. *Differential and Integral Calculus; Elements of differential equations*. *Tu., Th., Sat.*, at 9.15. Three credits. Professor HODGKINS.

*Third Section. Primarily for Graduates*

50. *Differential Equations*.—Three credits. Professor HODGKINS.

58. *Celestial Mechanics*.—Theory of central forces; theory of parabolic and elliptic orbits. Lectures, with reading from the works of Gauss, Oppolzer, and Moulton. Three credits. Professor HALL.

## MECHANICAL ENGINEERING

See Engineering.

## METEOROLOGY

WILLIS LUTHER MOORE, D.Sc., LL.D.....	Professor
WILLIAM JACKSON HUMPHREYS, Ph.D.....	Professor

*Third Section. Primarily for Graduates*

50. *Applied Meteorology*.—Investigation of the underlying laws governing meteorological phenomena and of the methods employed in practice for their interpretation and applications. Five credits. Professor MOORE.

51. *Meteorological Physics*. This course presupposes collegiate training in general physics. Particular attention will be given to the interpretation of meteorological phenomena in the light of modern physics; and those wishing to make this their principal study will be assisted in the selection of a suitable problem for investigation and advised in the collection of data necessary to its solution. Five credits. Professor HUMPHREYS.

## NAUTICAL SCIENCE

GEORGE WASHINGTON LITTLEHALES, C.E.....Professor

*First Section. Primarily for Undergraduates*

1. *Nautical Science*.—Navigation; nautical astronomy; nautical almanac; production and use of nautical charts; tides; applications of meteorology, terrestrial magnetism and oceanography to navigation; deviation of the compass in iron and steel ships; theory and use of instruments of navigation. Two credits. Professor LITTLEHALES.

*Third Section. Primarily for Graduates*

50. *Nautical Science*.—Special investigations requiring original thought in relation to avenues of progress, such as the neutralization of the effects of the ship's magnetism upon the compass, the development of the gyroscopic compass, the supplying of means to enable seamen to make astronomical observations at night or when the horizon is hidden from view. Conferences, assigned readings, direction of research. Three credits. Professor LITTLEHALES.

## PHILOSOPHY AND PSYCHOLOGY

WILLIAM CARL RUEDIGER, Ph.D.....Professor  
SHEPHERD IVORY FRANZ, Ph.D.....Professor  
EDWARD ELLIOTT RICHARDSON, Ph.D.....Professor

*First Section. Primarily for Undergraduates*

1. *General Psychology*.—An introductory study of the principal facts and laws of the mental life. *Mon., Fri.*, at 10.15. Two credits. Professor RUEDIGER.

2. *General Psychology*.—Parallel with Course 1. *Mon., Fri.*, at 5.00. Two credits. Professor RUEDIGER.



3. *Logic and Theory of Knowledge*.—Principles of deductive and inductive inference, followed by a study of the nature and structure of knowledge, its organization, and its relation to language. *Wed.*, at 10.15. One credit. Professor RUEDIGER.

4. *Logic and Theory of Knowledge*.—Parallel with Course 3. *Wed.*, at 5.00. One credit. Professor RUEDIGER.

(Courses 1 and 3, or 2 and 4 are planned to be taken together, but may be taken separately and are intended to satisfy the requirements in Psychology and Logic of Groups I to IV (pp. 69-70). They are introductory to the remaining courses in Philosophy and Education, and should be taken in the Sophomore year by students intending to pursue advanced courses or courses in Education.)

#### *Second Section. For Undergraduates and Graduates*

20. *History of Philosophy*.—The more important epochs in the history of thought. Attention is directed to the relation of these distinctive periods to the course of the world's progress. First half-year. *Tu., Th., Sat.*, at 10.15. One and one-half credits. Professor RICHARDSON.

21. *Ethics*.—A historical and theoretical course, with the aim of acquainting the student with the principal ethical theories. Reference is made to the application of these theories to concrete conditions. Second half-year. *Tu., Th., Sat.*, at 10.15. One and one-half credits. Professor RICHARDSON.

22. *Ethics*.—Similar to course 21. Second half-year. *Mon., Wed.* at 5.50. One credit. Professor RICHARDSON.

24. *History of Philosophy*.—The development of philosophy, its nature and problems. This course while introductory is designed to be comprehensive and to give the student a general survey of the philosophic field. *Tu. Th.*, at 5.00. Two credits. Professor RICHARDSON.

25. *Experimental Psychology*.—An introductory laboratory course. Experiments on sensation, movement, effects of practice, memory and association, emotional manifestations, etc. This course may be taken parallel with Course 1 or 2. To be taken by graduate students who have not had experimental psychology and who are taking a major or minor in psychology. Not given in 1915-16. Professor RUEDIGER.

27. *Recent Philosophical Movements*.—A consideration of the various philosophical movements and tendencies of the immediate past. A critical study of the occasion and meaning of the trend of thought at the present time. Lectures and reading of recent books and periodicals. *Wed.* at 5.00. One credit. Professor RICHARDSON.

28. *Philosophy of Nature*.—A critical examination of the concepts of physical science. An investigation of the significance of scientific laws and theories. *Wed.* at 5.00. One credit. Not given in 1915-16. Professor RICHARDSON.

(Courses 27 and 28 are given in alternate years)

29. *Problems of Philosophy*.—An advanced course dealing with philosophical questions from the standpoint of the questions themselves

rather than as these have been presented historically. A critical and constructive examination of fundamental philosophic principles and problems. Lectures, readings and reports. First half-year. Mon., Wed. at 5.50. One credit. Professor RICHARDSON.

*Third Section. Primarily for Graduates*

50. *Seminary in Psychology*.—During the year 1915-16 this course will be combined with Education 50. Professor RUEBIGER.

51. *Metaphysics*.—The principles of metaphysics and the problems of philosophy. An advanced course tracing the origin and development of metaphysical questions, and a critical examination of the attempted solution of these problems. Readings, conferences and written reports. Three credits. Professor RICHARDSON.

52. *Advanced Experimental, Abnormal or Physiological Psychology*.—Course to be altered in different years in accordance with the needs of students. Prerequisite—courses in general psychology, and introductory experimental psychology. Conferences, reading of recent literature, and demonstrations. Five credits. Professor FRANZ.

53. *Research in Psychology*. Advanced students, who select psychology as major or minor for the degree of A.M. or Ph.D., will be given special topics for investigation in abnormal, physiological or experimental psychology. To be preceded or accompanied by Course 52 or its equivalent. Five credits. Professor FRANZ.

PHYSICS

M. C. MOTT-SMITH.....Assistant Professor  
CHARLES EDWIN VAN ORSTRAND, S.M.....Lecturer  
HARVEY LINCOLN CURTIS, Ph.D.....Lecturer

*First Section. Primarily for Undergraduates*

1. *General Physics*.—A recitation and lecture course, embracing the fundamental principles of mechanics, sound, heat, light, and electricity. The lectures are illustrated by experiments. This is a required course for Sophomores in Engineering, and may be elected by the general student who has completed Mathematics 9 or 12. Mon., Wed., Fri., at 5.00. Three credits. Assistant Professor MOTT-SMITH.

2. *Laboratory Physics*.—A selected series of experiments, mainly quantitative. Two two-hour periods. Tu., Th., at 10.15 or Tu., Th., at 7.30. Two credits. Assistant Professor MOTT-SMITH.

3. *Introductory General Physics*.—A lecture and recitation course, similar to Course 1, but less mathematical, and planned with reference to the needs of the general student. Mon., Wed., Fri., at 1.45. Three credits. Assistant Professor MOTT-SMITH.



*Second Section. For Undergraduates and Graduates*

21. *Heat and Thermodynamics*.—A recitation and lecture course, based on Preston's Theory of Heat and Ennis' Applied Thermodynamics. Three periods. Not given in 1915-16.

22. *Light*.—A recitation and lecture course, based on Preston's Theory of Light and Schuster's Theory of Optics. *Mon., Wed., Fri., at 5.50.* Three credits. Assistant Professor MOTT-SMITH.

*Third Section. Primarily for Graduates*

57. *Kinetic Theory*. The physical properties of gases discussed from the standpoint of general dynamics. Viscosity, diffusion, heat conduction, Brownian movements, Van der Waals' equation, and molecular aggregation and dissociation. Jeans' Dynamical Theory of Gases. A lecture and seminar course. Monday at 4.50. Three credits. Mr. VAN ORSTRAND.

58. *ELASTICITY*. The physical properties of solids as applied to problems in geophysics. Homogeneous stress and strain. Potential energy of strained solids. Transmission of force. Propagation of earthquake waves. Love's Mathematical Theory of Elasticity. A lecture and seminar course. Friday at 4.50. Three credits. Mr. VAN ORSTRAND.

59. *Theoretical Electricity*.—A lecture course on the Mathematical theory of Electricity, using J. J. Thomson's Elements of Electricity and Magnetism as a basis. The fundamental propositions of electrical theory are discussed, and their applications to practical problems are pointed out. The solution of a number of problems is also required. Three credits. Dr. CURTIS.

60. *Least Squares*. Derivation of the law of errors and adjustment of observations with special reference to the determination of the constants of empirical formulas. Merriman's Method of Least Squares. A lecture and recitation course. First half-year. Monday at 4.50. One credit. Mr. VAN ORSTRAND.

61. *Statistical Mechanics*. The fundamental equations of thermodynamics are developed and applied to the derivation of the phase rule. Gibbs' Statistical Mechanics. A lecture course. Second half-year. Monday at 4.50. One and one-half credits. Mr. VAN ORSTRAND.

## POLITICAL SCIENCE

CHARLES HERBERT STOCKTON, LL.D.....In charge of Department  
LESLIE CLEVELAND MCNEMAR, A.B.....Assistant Professor

*First Section. Primarily for Undergraduates*

1. *Elements of Political Science*.—An elementary course designed to familiarize the student with the nature and scope of politics as a science;

the origin, nature and functions of the state; the distinction between sovereignty and government; the distribution of powers, and particularly the relation of the individual to the state and the attendant obligations of citizenship. Recommended as a prerequisite to the succeeding courses. Text-book and lectures. First half-year. *Tu., Th., Sat.*, at 10.15. One and one-half credits. Assistant Professor McNEMAR.

2. *European Governments.*—A comparative study of the political organization of the principal states of Europe, involving a classification of the state, and the nature of its government on the basis of the source of power; further, an examination of the relation of the executive, legislative and judiciary departments, to each other, and the nature of the party system in each. Text-book and lectures. Second half-year. *Tu., Th., Sat.*, at 5.00. Alternates with Pol. Sci. 4. One and one-half credits. Assistant Professor McNEMAR.

4. *Political Parties and Party Problems in the United States.*—A study of the organization and methods of action; growth of the party system; primary and convention system; permanent party organization; elements of cohesion in parties; reform movements and measures; theories of the party system. Text-book, assigned readings and lectures. Second half-year. *Tu., Th., Sat.*, at 5.00. Alternates with Pol. Sci. 2. Not given in 1915-16. One and one-half credits. Assistant Professor McNEMAR.

*Second Section. For Undergraduates and Graduates*

21. *American Government.* A study of the governmental system of the United States; origin, adoption, and growth of the federal Constitution; the relation of the Federal to the State governments, and their organization; the basis of suffrage, influence of public opinion, and political parties. Recommended as a prerequisite to the succeeding courses. Text-book, lectures, and assigned readings. Second half-year. *Tu., Th., Sat.*, at 10.15. One and one-half credits. Assistant Professor McNEMAR.

22. *Federal Government.*—A study of the political problems involved in the organization of the federal government under the present Constitution, including foreign relations, concentration of power, centralization or responsibility, relation of the executive, legislative and judiciary departments, and the importance of their subdivisions. Text-book, lectures, and assigned readings. Second half year. *Tu., Th., Sat.*, at 11.15. Alternates with Pol. Sci. 23. One and one-half credits. Assistant Professor McNEMAR.

23. *Municipal Government in the United States.*—A study of the relation of the city to the state and the nation, including the source of power, their organization and administration; the problems arising from rapid growth, powers and liabilities, their influence upon politics,



and the necessity for scientific administration as economic units. Text, lectures, and assigned readings. Second half-year. *Tu., Th., Sat.*, at 5.00. Alternates with Pol. Sci. 22. Not given in 1915-16. One and one-half credits. Assistant Professor McNEMAR.

24. *Constitutional Law*.—An elementary course on the sources of Constitutional Law and its enforcement; the relation of and restrictions upon the Federal and State Governments; private rights and immunities; the regulation of commerce, police, taxation, etc. Lectures, textbook and assigned readings. First half-year. *Tu., Th., Sat.*, at 11.15. One and one-half credits. Assistant Professor McNEMAR.

27. *Political History of Modern Europe, 1850 to the Present*.—A concise study of the *political* development of the principal European states dealing primarily with the causes and effects involved in the struggle for national unity, with special attention to political organization, the forms of government, and the policies of larger European interest such as colonization and international relations in South America, Asia, and Africa. Text-book and lectures. First half-year. *Tu., Th., Sat.*, at 5.00. Alternates with Pol. Sci. 28. One and one-half credits. Assistant Professor McNEMAR.

28. *Political History of South America, 1810 to the Present*.—A general study of the *political* development of the States of South America, individually and collectively, dealing primarily with the causes and effects involved in their struggle for national, economic, social and political development, with special attention to the questions of foreign relations. Text-book and lectures. First half-year. Alternates with Pol. Sci. 27. Not given in 1915-16. One and one-half credits. Assistant Professor McNEMAR.

29. *Principles of International Law*.—A concise study of the nature, sources and sanctions of International Law. The laws of peace deal with the origin, classification, and essential rights and duties of states but not diplomatic relations; the laws of war deal with the sources and general relations between belligerents together with the rights and duties of neutrals. Lectures, text, assigned cases and additional readings and papers on selected topics. First half-year. *Mon., Fri.*, at 9.00. One credit. Lectures and assigned readings, President STOCKTON, supplemented by case instruction, Assistant Professor McNEMAR.

30. *Elements of Diplomacy and Diplomatic Usage*.—A thorough study of the general principles of diplomatic usage; the history and organization of the Department of State; the rights, privileges and immunities of diplomatic and consular officers; the preliminaries, drafting, signing, and ratification of treaties, and an investigation of other amicable means for settling International Differences. Lectures, text, assigned cases and additional readings and papers on selected topics. Second half-year. *Mon., Fri.*, at 9.00. One credit. Lectures and assigned

readings, President STOCKTON, supplemented by case instruction, Assistant Professor McNEMAR.

31. *Government of England*.—A detailed study of the English governmental system compared with the presidential system of the United States. The organization, functions and procedure, of the crown and the ministry, parliament (particularly the House of Commons), political parties, the judiciary, and local government will be clearly shown. Text and assigned reading. Second half-year. *Tu., Th., Sat.*, at 11.15. Not given in 1915-16. One and one-half credits. Assistant Professor McNEMAR.

*Third Section. Primarily for Graduates*

56. *Seminar in Political Science*.—Students competent to undertake advanced work are admitted to this seminar for the presentation and discussion of essays and topics belonging to the field of political science. Hours and credit to be arranged for the work each half year. One hour per week. Two credits. Assistant Professor McNEMAR.

PREVENTIVE MEDICINE

GEORGE MILLER STERNBERG, M.D., LL.D. .... Professor

*Third Section. Primarily for Graduates*

50. A seminar course dealing with vital statistics; etiology and prevention of infectious diseases; causes and prevention of infant mortality; prevention of disease of occupation; protective inoculations; municipal hygiene; national and interstate preventive measures. Professor STERNBERG. Five credits.

ROMANCE LANGUAGES AND LITERATURES

GEORGE NEELY HENNING, A.M. .... Professor  
EDWARD CULLOM, A.M. .... Instructor in French  
WALTER COLCORD JOHN, A.B. .... Instructor in Spanish  
WILLIAM FLETCHER SMITH, A.B. .... Instructor in Romance Languages

French

*First Section. Primarily for Undergraduates*

1. *First-year course*. Fraser and Squair's French Grammar. Grammar, composition, drill in pronunciation, translation and reading of modern French fiction, comedy and history. For beginners. *Mon., Wed., Fri.*, at 11.15. Three credits. Professor Henning.



2. *First-year course.* Parallel with Course 1. Fraser and Squair's French Grammar. For beginners. *Tu., Th., Sat.*, at 5.50. Three credits. Mr. CULLOM.

3. *Second-year course.* Fraser and Squair's French Grammar. First text, Mérimée, "Colomba" (Heath); other texts to be announced. Open to students who have passed in French 1 or 2, or have fulfilled the admission requirements in Elementary French. *Mon., Wed., Fri.*, at 10.15. Three credits. Professor HENNING.

4. *Second-year course.* Parallel with Course 3. Fraser and Squair's French Grammar. First text, Mérimée, "Colomba" (Heath); other texts to be announced. *Tu., Th., Sat.*, at 5. Three credits. Professor Henning.

5. *General Survey of Modern French Literature* (Nineteenth, Eighteenth and Seventeenth Centuries). Translation, collateral reading and reports thereon, lectures on literature and the history of the language, composition. Open to students who have passed in Course 3 or 4, or have fulfilled the admission requirements in Advanced French. *Mon., Wed., Fri.*, at 3.45. Three credits. Professor Henning.

6. Parallel with Course 5. *Tu., Th., Sat.*, at 5.50. Three credits. Professor Henning.

#### *Second Section. For Undergraduates and Graduates*

Courses in this group are open to students who have passed in Course 6, or otherwise satisfy the instructor of their fitness to take them.

21. *Literature of the Seventeenth Century.*—History, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Balzac, Boileau, Corneille, Descartes, Fénelon, Mme. de La Fayette, La Bruyère, La Fontaine, La Rochefoucauld, Malherbe, Molière, Pascal, Racine, Saint-Evremond, Saint-Simon, Mme. de Sévigné, etc. Translation, collateral reading and reports thereon, lectures on literature and history. *Mon., Wed., Fri.*, at 2.45. Three credits. Professor HENNING.

26. *Literature from 1800 to 1850.*—History, criticism, travels, fiction, drama, lyric poetry. Balzac, Baudelaire, Chateaubriand, Gautier, Hugo, Lamartine, Michelet, Musset, Sainte-Beuve, George Sand, Thierry, Vigny, etc. Translation, collateral reading and reports thereon, lectures on literature and history. (Given in 1916-17.)

28. *Literature from 1850 to the Present.*—History, philosophy, criticism, fiction, drama, lyric poetry. Augier, Brunetière, Daudet, Dumas fils, Flaubert, France, Heredia, Hervieu, Leconte de Lisle, Lemaitre, Loti, Maeterlinck, Maupassant, Mérimée, Renan, Rostand, Sully Prudhomme, Taine, Verlaine, etc. Translation, collateral reading and reports thereon, lectures on literature and history. (Given in 1917-18.)

#### *Third Section. Primarily for Graduates*

50. Courses may be arranged for competent graduates. Three credits. Professor Henning.

## Sociology

See Economics.

## Spanish

*First Section. Primarily for Undergraduates*

1. *First-year course.* Hills and Ford's Spanish Grammar. Grammar, composition, drill in pronunciation, translation of modern Spanish fiction, comedy and history. Open to Freshmen only by permission of the instructor. Students may not elect Spanish 1 and Italian 1 in the same year. For beginners. *Mon., Wed., Fri.,* at 5. Three credits. Mr. SMITH.

2. *Second-year course.* Review of grammar, translation of modern Spanish prose and poetry, collateral reading. Open to students who have passed in Course 1, or have passed the admission requirements in Elementary Spanish, or otherwise satisfy the instructor of their fitness to take the course. *Mon., Wed., Fri.,* at 1.45. Three credits. Mr. JOHN.

## Italian

*First Section. Primarily for Undergraduates*

1. *First-year course.* Grammar, composition, drill in pronunciation, translation of modern Italian prose. For beginners. Open to Freshmen only by permission of the instructor. Students may not elect Italian 1 and Spanish 1 in the same year. *Mon., Wed., Fri.,* at 5.50. Three credits. Mr. SMITH.

(This course will be given only if elected by a sufficiently large number of students at the beginning of the year).



## LAW SCHOOL

### FACULTY

CHARLES HERBERT STOCKTON, LL.D.....	President of the University
EVERETT FRASER, A.B., LL.B.....	Dean and Professor of Law
MELVILLE CHURCH, LL.M.....	Professor of the Law of Patents
WALTER COLLINS CLEPHANE, LL.M.....	Professor of Law
EDWIN CHARLES BRANDENBURG, LL.M.....	Professor of Law
ARTHUR PETER, LL.B.....	Professor of Law
JOHN PAUL EARNEST, A.M., LL.M.....	Professor of Law
WENDELL PHILLIPS STAFFORD, A.M., LL.D.....	Professor of Law
JOHN WILMER LATIMER, LL.B.....	Professor of Law
MERTON LEROY FERSON, A.M., LL.B.....	Professor of Law
ARCHIBALD KING, A.M., LL.B.....	Assistant Professor of Law
JAMES LEWIS PARKS, Jr., A.B., LL.B.....	Assistant Professor of Law
ERNST OTTO SCHREIBER, Jr., A.B., LL.B.....	Assistant Professor of Law
LOYD HALL SUTTON, S.B., LL.B.....	Instructor in Patent Law
ALFRED GEISES BUHRMAN.....	Clerk of the Moot Court
WILLIAM CABELL VAN VLECK, A.B., LL.B.,	

Secretary of the Law School and Instructor in Law

### MOOT COURT OF APPEALS

JOHN B. LARNER, LL.D.....	Chief Justice
HENRY BROWN FLOYD MACFARLAND.....	Associate Justice
STANTON JUDKINS PEELE, LL.D.....	Associate Justice

### LIBRARY

JAMES CUNNINGHAM ROGERS.....	Assistant Librarian
WALLACE IRVING ATHERTON.....	Assistant Librarian

### GENERAL STATEMENT

*History.*—The Law School, established in 1865, is the oldest in the city of Washington. Its course of instruction for the degree of Bachelor of Laws originally requiring two years was increased in 1898 to three years. A year of graduate work was added in 1877 leading to the degree of Master of Laws. The curriculum has since been increased by a course of study leading to the degree of Master of Patent Law.

*Association of American Law Schools.*—The Law School was one of the group of law schools which in 1900 organized the Association of American Law Schools and it has remained a member of the Association since that time. This Association includes forty-six of the most progressive law schools of the country and is committed to the policy

of advancement in legal education. As this school maintains the standards of the Association, work certified by it is given a maximum of credit by other law schools of the country. This enables students who are unable to complete their studies in Washington, to continue them at other institutions with a minimum loss of time and work.

*Purpose of course.*—The School aims to give a thorough legal training to students whose education and maturity fit them to pursue serious professional study. Over sixty per cent of its students are college graduates or have had some college training and though a four years high school course at present qualifies for admission, a year or more of college work in English, Latin, History and Economics is advised, and, beginning with the academic year 1916-17, a year of college work will be required of all applicants under 21 years of age. The University permits the first year of law work to be counted as the fourth year of college work for the degree of Bachelor of Arts, thus enabling students to obtain both the academic and professional degrees in six years.

*Method of instruction.*—The primary function of the law school is to teach students how to study the law and imparting information is of secondary importance. Learning rules of law without reference to the facts and reasons on which they are based, results in vagueness and misunderstanding. Moreover the field of law is too vast for any student to cover in a few years. For these reasons the "case system" of instruction is used. The student studies decided cases in which the fundamental principles of law were first declared, and other cases showing their development. He receives his mental training by analyzing the facts and reasons which led to the decision and at the same time becomes thoroughly familiar with the rule of law, its origin, evolution and application as limited by the reasons on which it is based. The exercise gives him not only knowledge but power to solve new problems and saves him from becoming a mere "case" lawyer.

The substantive law is almost wholly taught by professional teachers employing the case method and giving all their time to the school; the practice courses are conducted by lawyers and judges in active practice.

*Scope of course.*—The course of study is not local in its scope but constitutes a thorough preparation for the practice of law in any English speaking jurisdiction. It satisfies the professional study required for admission to the Bar examinations of the District of Columbia and all other jurisdictions of the United States. The school has conferred over 2,500 degrees, and its graduates are now practicing in every state of the Union.

#### ADVANTAGES OF WASHINGTON FOR THE STUDY OF LAW

The city of Washington has unusual attractions for students and particularly for students of law. It lies between the North and the South. It is a residential city of rare beauty, and its population is drawn from all over the United States. The library facilities of the



city, both general and legal, are unexcelled. It is unique in the extent of its legal machinery. It is the seat of Congress, the Supreme Court of the United States, the Department of Justice, the United States Court of Claims, the United States Court of Customs Appeals, and of the District of Columbia Court of Appeals, Supreme Court and Municipal Courts, which exercise the dual function of state and federal courts. By attending the sessions of these various bodies students can familiarize themselves with all branches of legal procedure and keep in touch with current legal thought while pursuing their studies.

#### LOCATION

The Law School occupies the entire fifth and sixth floors of the New Masonic Temple, corner of New York Avenue, Thirteenth and H streets N. W., and is easily accessible from all parts of the city. The quarters are well equipped with commodious class rooms, moot court rooms, offices, the law library, and a students room.

#### LIBRARY

A well-equipped working library comprising about 6700 volumes, is open to students from 8.30 a.m. to 10 p.m. Competent librarians are in charge and will give students assistance in the use of books.

The library contains the complete decisions of the highest courts of thirty-eight states and the District of Columbia, the complete reports of the United States Supreme Court and the other federal courts, the complete National Reporter Reports, the Century, Decennial, Key number and United States Supreme Court Digests, the various encyclopedias of law, the Lawyers Reports Annotated, the American Decisions, American Reports and American State Reports, the English Common Law and Chancery Reports, the English Reprint, the English Law Reports and Law Journal Reports since 1865 and about 800 standard text books and legal periodicals.

In addition to these facilities the students have free access to the Congressional Library and other public libraries.

#### ACADEMIC YEAR AND REGISTRATION

The academic year 1915-16 begins Wednesday, September 29, closes Wednesday, June 7. The year is divided into two half-years, the second beginning on January 31. The course is so arranged that a student may enter the second half-year and be graduated three years from that time, receiving his degree at the Winter Convocation, held on or about February 22, of each year.

Students are urged to register at the beginning of the half-year. Those who register later than three weeks after the opening of the half-year, will be restricted to registration for such work only as in the opinion of the faculty they can successfully carry.

## HOURS OF INSTRUCTION

The classes are divided into two sections, one meeting in the forenoon between 9 and 12; the other in the afternoon from 4.50 to 6.30. A complete course is available at either period. This enables students in Government or other employment to attend the law school during the day and to have their evenings for study. Classes in a few subjects are held in the morning from 7.50 to 8.40, and may be elected by students of the second and third years in place of subjects of the regular periods.

## ADMISSION 1915-16\*

I. *For the Degree of Bachelor of Laws.*—The requirements for admission to the course leading to the degree of Bachelor of Laws may be satisfied in either of the following ways:

- a. By the presentation of a diploma or certificate of graduation from the classical, scientific or equivalent course of a college or university.
- b. By the presentation of certificates from a college or university, or from an approved high school or preparatory school, showing the successful completion of at least fifteen high school units, which are broadly equivalent to a four year high school course. A unit represents approximately one year of study of a major subject in a high school. Applicants qualifying for admission under this requirement must be at least eighteen years of age. Those presenting high school credits only should have them certified on the blank forms which they may obtain from the Secretary of the Law School.

The fifteen units may be made up from the following subjects: (The Roman numerals indicate the year of study in the subject).

<i>Subjects</i>	<i>Units</i>
English I, II, III, IV.....	4
Latin, Elementary, I, II.....	2
Advanced, III, IV.....	2
Greek, Elementary, I, II.....	2
Advanced, III.....	1
French, Elementary, I, II.....	2
Advanced, III, IV.....	2
German, Elementary, I, II.....	2
Advanced, III, IV.....	2
Spanish, Elementary, I, II.....	2
History, Ancient.....	1
Mediaeval and Modern European.....	1
English.....	1
American.....	1

\* Beginning with the year 1916-17, twelve year hours of college work will be required of candidates for admission who are under 21 years of age.



<i>Subjects</i>	<i>Units</i>
Mathematics	
Algebra, Elementary.....	1
Advanced.....	$\frac{1}{2}$
Geometry, Plane.....	1
Solid.....	$\frac{1}{2}$
Plane Trigonometry.....	$\frac{1}{2}$
Science	
Physics.....	1
Chemistry.....	1
Physiography.....	1
Biology.....	1
Botany.....	$\frac{1}{2}$
Zoology.....	$\frac{1}{2}$
Political Economy.....	1
Civil Government.....	1
Commercial High School Subjects	
Accounting and Finance.....	1
Bookkeeping.....	1
Business Organization.....	1
Commercial Law.....	1
Commercial History.....	$\frac{1}{2}$
Commercial Geography.....	$\frac{1}{2}$
Government and Industrial Problems.....	1

2. *For the Degree of Master of Laws or Master of Patent Law.*—Candidates for these degrees must be at least twenty-one years of age and hold the degree of Bachelor of Laws from an institution substantially complying with the requirements of the Association of American Law Schools.

3. *As Special Students.*—Persons who can not qualify as candidates for a degree but are over twenty-one years of age and have had such educational training and practical experience as should enable them to pursue satisfactorily the study of law, may be admitted as special students by consent of the Dean.

#### ADVANCED STANDING

Students from other law schools which substantially comply with the requirements of the Association of American Law Schools will receive equivalent credit, not exceeding two years' work. Such students must have been qualified to enter this school when they began the study of law. The right is reserved to refuse such credit, in whole or part, save conditionally or after examination, and credit given may be withdrawn for poor work.

Applicants of whom examination may be required, can take the regular examinations or those held at the beginning of each academic year. (See examinations.)

No credit will be given for study pursued in a law office.

## SUBJECTS OF INSTRUCTION 1915-16

The course of instruction extends through a period of at least three years. For the degree of Bachelor of Laws twelve hours class work a week are necessary to complete the course in three years. Ten hours a week for a year in subjects not counted towards the Bachelor's degree, are required for the degree of Master of Laws or Master of Patent Law.

The subjects marked with an asterisk are required for the degree of Bachelor of Laws. The student may elect the remainder of his subjects. Third-year students may elect subjects of the second year not previously studied. The selection of the subjects must be made in all cases within ten days after the beginning of the half-year.

Students devoting their whole time to the study of law may, with the permission of the Dean, take work not exceeding fifteen hours a week. Excess credits may be applied toward the degree of Master of Laws or Master of Patent Law. Students with substantial outside employment may not register for more than twelve hours and are urged to carry less, devoting more than three years to the course.

## FIRST YEAR SUBJECTS

\* *Common Law Pleading*.—Professor FRASER. Two hours a week in the first half-year. Case book to be announced.

\* *Contracts*.—Assistant Professor SCHREIBER. Three hours a week. Williston's Cases on Contracts.

*Criminal Law and Procedure*.—Professor EARNEST. Three hours a week in the second half-year. Clark's Criminal Law and Mikell's Cases on Criminal Law, Clark's Criminal Procedure and selected cases.

\* *Equity*.—Assistant Professor PARKS. Two hours a week in the second half-year. Ames' Cases on Equity Jurisdiction, Volume I.

\* *Personal Property*.—Mr. VAN VLECK. Two hours a week in the first half-year. Case book to be announced.

*Principles of Legal Liability*.—Professor FERNON. Three hours a week in the first half-year. Beale's Cases on Legal Liability.

\* *Real Property I*.—Professor FRASER. Two hours a week in the second half-year. Case book to be announced.

\* *Torts*.—Assistant Professor KING. Two hours a week. Ames and Smith's Cases on Torts. Volume I. Third Edition; Volume II, Second Edition.

## SECOND YEAR SUBJECTS

\* *Bills and Notes*.—Assistant Professor KING. Two hours a week in the first half year; one hour a week in the second half year. Case book to be announced.

• Required Subjects.



\* *Evidence*.—Professor PETER and Assistant Professor SCHREIBER. One hour a week in the first half-year; two hours a week in the second half-year. McKelvey on Evidence, Thayer's Cases on Evidence.

\* *Real Property II*.—Professor FRASER. Two hours a week. Gray's Cases on Property, Volumes II and III, Second Edition.

*Administrative Law*.—Assistant Professor KING. Two hours a week in the first half-year. Case book to be announced. Given in 1915-16 and in alternate years thereafter.

*Agency*.—Professor FERSON. Three hours a week for a half-year. Wambaugh's Cases on Agency. Not given in 1915-16.

*Carriers*.—Assistant Professor PARKS. Two hours a week in the first half-year. Case book to be announced. Given in 1915-16 and in alternate years thereafter.

\* *Common Law Pleading and Practice*.—Professor Clephane. Two hours a week in the first half-year. Tyler's Stephen on Pleading.

\* *Equity II*.—Professor STAFFORD. Two hours a week in the first half-year. Ames' Cases on Equity Jurisdiction, Volume I.

*Mortgages*.—Assistant Professor PARKS. Two hours a week in the first half-year. Case book to be announced. Given in 1915-16 and in alternate years thereafter.

*Municipal Corporations*.—Assistant Professor PARKS. Two hours a week in the first half-year. Beale's Cases on Municipal Corporations. Not given 1915-16 and in alternate years thereafter.

*Public Service Companies*.—Assistant Professor PARKS. Two hours a week in the second half-year. Wyman's Cases on Public Service Corporations. Not given in 1915-16 and in alternate years thereafter.

*Sales*.—Professor FERSON. Three hours a week in the first half-year. Williston's Cases on Sales, Second Edition.

*Wills and Administration*.—Professor Peter. One hour a week in the first half-year.

*Brief Making*.—Professor LATIMER. One hour a week in the second half-year.

*Damages*.—Assistant Professor PARKS. Two hours a week in the second half-year. Beale's Cases on Damages. Given in 1915-16 and in alternate years thereafter.

*Domestic Relations*.—Mr. VAN VLECK. Two hours a week in the second half-year. Case book to be announced. Given in 1915-16 and in alternate years thereafter.

*Equity III*.—Professor STAFFORD. Two hours a week in the second half-year. Ames' Cases on Equity Jurisdiction, Volume II.

*Equity Pleading and Practice*.—Professor CLEPHANE. One hour a week in the second half-year. Rush on Equity Pleading and Practice. Rush's Cases on Equity Pleading and Practice.

\* Required Subjects.

*Insurance.*—Professor FERNON. Three hours a week in the second half-year. Wambaugh's Cases on Insurance. Given in 1915-16 and in alternate years thereafter.

*Partnership.*—Mr. VAN VLECK. Two hours a week in the second half-year. Case book to be announced. Not given in 1915-16 and in alternate years thereafter.

*Quasi-Contracts.*—Mr. VAN VLECK. Two hours a week in the second half-year. Scott's Cases on Quasi-Contracts.

#### THIRD YEAR SUBJECTS

\* *Bills and Notes.*—Assistant Professor KING. Two hours a week, in the first half-year; one hour a week in the second half-year. Case book to be announced.

*Conflict of Laws.*—Assistant Professor SCHREIBER. Two hours a week. Lorenzen's Cases on Conflict of Laws.

*Constitutional Law.*—Professor FRASER. Two hours a week. Case book to be announced.

\* *Corporations.*—Assistant Professor PARKS. Two hours a week. Warren's Cases on Corporations.

\* *Moot Court.*—Professors CLEPHANE, EARNEST, and LATIMER. Two hours a week.

*Patent Law Practice.*—Professor CHURCH. Two hours a week.

*Substantive Patent Law and Patent Office Practice.*—Mr. SUTTON. Two hours a week.

*Bankruptcy.*—Professor BRANDENBURG. One hour a week in the first half-year.

*Preparation of Legal Instruments.*—Professor LATIMER. One hour a week in the first half-year.

*Federal Procedure.*—Professor BRANDENBURG. One hour a week in the second half-year.

*Legal Tactics and Ethics.*—Professor CLEPHANE. One hour a week in the second half-year.

*Organization and Management of Corporations.*—Professor CLEPHANE. One hour a week in the second half-year. Clephane on the Organization and Management of Corporations. Second Edition.

*Suretyship.*—Assistant Professor KING. Two hours a week in the second half-year. Ames' Cases on Suretyship.

*Trusts.*—Professor FERNON. Three hours a week in the second half-year. Ames' Cases on Trusts.

#### INTERNATIONAL LAW

A course on International Law and Diplomacy offered by the Faculty of Arts and Sciences will be available to students in the Law School

\* Required Subjects.



during 1915-16. This course will be especially valuable to officers of the army and navy.

#### COURSE IN PATENT LAW

A special course in Patent Law Practice is given by Professor CHURCH. The purpose of this course is to prepare those taking it for practice in all matters involving the law of patents. The course is two hours a week for a year and includes lectures and moot court work.

This course may be elected and counted by students toward the degree of Bachelor of Laws, and such students will be required to take only the first half-year of the regular moot court work. A certificate, under the seal of the University, is granted to all students who complete this course.

In 1913, an additional course in United States Patent Office Practice and Substantive Patent Law was added and the work in Patent Law thus doubled. This course may also be counted by students toward the degree of Bachelor of Laws.

#### COURSES IN PRACTICE

##### A. Moot Court Work

Candidates for the degree of Bachelor of Laws are required to devote two hours a week in the third year to moot court work but those taking the practice course in Patent Law may omit the second half-year. Candidates for the Masters' degrees may elect moot court as one of their subjects and are required to carry their cases through the Appellate Court.

There are four courts in which students pursue their work. Three are *nisi prius* courts presided over by members of the Washington Bar in active practice. The fourth is a Court of Appeals, conducted by the ex-Chief Justice of the United States Court of Claims and members of the Washington Bar.

The clerk of the Moot Court is one of the assistant clerks of the Supreme Court of the District of Columbia, but his assistants in each court room are chosen from the student body, as are also the criers, jurors, and other officials, thus giving to the students the benefit of practice in administrative judicial machinery. The moot court is to all intents and purposes an actual court. The rooms in which the sessions are held are fitted up with judges' benches, clerks' desks, and counsel tables, and from the time the crier announces that the court is in session until he announces its adjournment, the procedure is identical with that of a regular tribunal.

Statements of facts are furnished, such as would be related to a lawyer in active practice by his client. Each student must determine whether or not upon such facts the particular case in hand is one of common law or equitable cognizance. He must then frame his pleadings, serve his writs, and answer his adversary's pleadings until issue is joined,

after which the case is brought on for hearing in strict accordance with the rules of actual practice. Juries are empaneled in accordance with settled legal procedure, witnesses are examined and cross examined, and the case conducted through all the various stages of the trial or hearing down to and including the judgment or decree, after which, should the case be appealed, it must be carried through the Appellate Court, involving the preparation of the record on appeal, briefs of counsel, etc.

It is believed that any student who gives the proper attention to this feature of the law curriculum will be able to try cases in court, although he may never have been in an actual court room.

#### **B. Brief Making**

In view of the rapidly increasing bulk of our case law, it is indispensable that students should be taught to find authorities in point, to collate them and to present them to the court in a clear and concise form. In order to afford this training a course in Brief Making is given. This course will be conducted in part in the library of the Law School, so that the use of the digests and reports may be illustrated.

#### **C. Preparation of Legal Instruments**

Students are instructed in this course in the actual preparation of deeds, mortgages, wills, assignments, contracts, partnership agreements, and other legal instruments which a lawyer is called upon to prepare. Statements of facts are furnished to the class by the professor in charge, and each student is required to prepare the various forms of instruments. These are corrected by the professor and are discussed and criticised in class.

#### **D. Legal Tactics and Ethics**

Every young lawyer desires to avail himself of the experience of an older practitioner in many things in regard to practice which can not be taught from books. It is to meet this need that this course is given. An introductory talk is given upon the relations between attorney and client, including the subject of fees, after which the student is given the benefit of practical hints upon the manner of starting in practice, opening and furnishing an office and the preparation and conduct of cases. The Canons of Professional Ethics are studied and practical instruction is also given in Extraordinary Legal Remedies. This course is in charge of a member of the Washington Bar whose practice has been an active one for a period of many years.



## LEGAL AID SOCIETY

The Legal Aid Society of the Law School is a student organization which gives legal advice without charge to persons financially unable to employ a lawyer. The members secure valuable practical experience which supplements their work in Moot Court. Membership is restricted to senior and post-graduate students of high scholarship. The work of the Society is supervised by a member of the faculty and an alumnus in active practice.

## PUBLIC SPEAKING AND DEBATING

Excellent facilities for training in public speaking and parliamentary law are afforded by the Columbian Debating Society and the University Congress, which have been organized in the Law School, and meet weekly for debate. Membership in these Societies is optional, but their work is encouraged by the Faculty, and students are advised to take part in their exercises.

Intercollegiate debates are also held. Membership on the teams which represent the University in these contests must be won in preliminary contests held for such purpose. These debates are conducted under the supervision of a committee of the University Faculty.

## ATTENDANCE, RECITATIONS, EXAMINATIONS, GRADES AND ELIMINATION OF STUDENTS

*Attendance and Recitations.*—No student except by special permission of the Dean, will be allowed to take an examination in any subject unless he shall be regularly registered and have been in regular attendance upon the lectures and have done all the work required in the course of instruction upon that subject. A student who is absent over ten per cent of the class hours in any subject will be barred from examination unless his absences are excused by the Dean.

*Regular Examinations.*—Written examinations are held at the close of each half-year. These examinations are final as to the work of that half-year. All students are required to take the regular examinations in the subjects pursued, unless excused by the Dean.

*Grades.*—At all examinations the grading of students will be indicated by the letters A, B, C, D, E, and F, representing respectively Excellent, Good, Satisfactory, Fair, Conditioned and Failed. A student receiving the grade of F (failed) in any subject will be required to repeat the class work. A student receiving the grade of E (conditioned) in any subject will be required to repeat the class work unless he pass the next regular examination for the removal of conditions with a grade of at least C.

*Examinations for the Removal of Conditions.*—Regular examinations for the removal of conditions are held during the first week of each academic year. A special examination for the removal of conditions

is held at the end of each academic year for the benefit of candidates for the Bachelor's degree who have been conditioned in not more than four hours during the first half of their last year. Application for permission to take these examinations must be made in writing to the Secretary of the Law School not later than three days before the date for which the examination is scheduled.

*Elimination of Students.*—Students, regular or special, whose work is unsatisfactory are required to withdraw from the school. The instructors of the first year class are a committee to examine the students' records, with power to warn for deficiency, to place on probation, and to refuse reregistration to any student whose work is deemed unsatisfactory. This committee examines the records of all students immediately after the mid-year examinations and again after the final examinations.

#### DEGREES

1. *Bachelor of Laws.*—The degree of Bachelor of Laws will be conferred upon regular students who have studied law for a period of at least three years and passed satisfactory examinations on required elective subjects aggregating thirty-six year hours, and whose attendance and conduct have been satisfactory to the Faculty.

The degree of Bachelor of Laws with distinction will be awarded to students whose average percentage in all subjects is equivalent to the grade of A.

2. *Master of Laws.*—The degree of Master of Laws will be conferred upon students who have completed the work in subjects not counted for the Bachelor of Laws degree covering a minimum of ten hours a week with a grade of C or better and whose attendance and conduct have been satisfactory to the Faculty. The subject of International Law offered by the Faculty of Arts and Sciences may be counted towards this degree. The degree will not be conferred until one year after the receipt of the degree of Bachelor of Laws.

3. *Master of Patent Law.*—Students who have qualified for the degree of Master of Laws may elect instead the degree of Master of Patent Law provided that they have included in their course the subjects of Substantive Patent Law, Patent Law Practice and Federal Procedure. This degree will not be conferred until one year after receipt of the degree of Bachelor of Laws.

#### Combination Six-years Course for Degrees of Bachelor of Arts and Bachelor of Laws

The University permits one year of professional work in the Law School to be counted towards an academic degree. The degree of Bachelor of Arts will be conferred on students who have completed three years of college work (45 units) including one of the four groups of subjects prescribed by Columbian College of the University, and



the first year in the Law School; the degree of Bachelor of Laws on completing the whole six years of the combination course.

#### PRIZES

*The John B. Larnier Gold Medal.*—A gold medal offered by Mr. John Bell Larnier, Chairman of the Board of Trustees of the University, is awarded annually to that member of the graduating class who shall have attained the highest average grade in the entire course for the degree of Bachelor of Laws.

*Blackstone Institute Prize.*—A prize offered by the Blackstone Institute of a set of Modern American Law is awarded annually to that member of the graduating class who shall have attained the highest average grade in the entire work of the third year.

*The Ordranax Prize Scholarship.*—A prize scholarship, known as "The Ordranax Prize Scholarship," is awarded annually to that member of the second year class taking the regular course who shall have attained the highest average grade in the work of the second year. The recipient of this prize will be entitled to receive credit for tuition fees to the extent of ten hours work in his third year; library and diploma fees will remain payable. The award of this scholarship is purely personal and will not be commuted to a cash payment. The recipient of the scholarship must make use of it during the session next succeeding its award; otherwise it will be awarded to the person having the next highest grade. Awarded, for the session 1914-15, to John Monteith McFall.

*American Law Book Company Prize.*—A prize offered by the American Law Book Company of the Students' Edition of "Cyc," in twelve volumes, is awarded annually to the regular student of the second-year class making the second highest average grade for the work of the entire year.

*Phi Delta Phi Prize.*—The Marshall Chapter of Phi Delta Phi Fraternity, which is the local chapter, offers a prize of twenty-five dollars cash, to be awarded annually to that member of the first year class taking the regular course who shall attain the highest average grade in the entire work of the year. Awarded in 1914 to Roy Linney Deal.

*Ellsworth Prize.*—A prize of twenty-five dollars in gold, offered by Mr. Fritz von Briesen, called the "Ellsworth Prize," is awarded for the best work done by a regular student in the subject of Patent Law Practice. Awarded in 1914 to Frank Albert Bower.

*John Byrne and Company Prize.*—A prize offered by John Byrne and Company of Washington, D. C., of four volumes of their Legal Classics is awarded each year to the student attaining the highest grade in Real Property II. Awarded in 1914, to James Francis Pierce.

## FEES

1. Matriculation fee (payable once).....	\$5
2. Annual library fee.....	3
3. Tuition fee per annum for each hour taken per week..	10
4. Fee for graduation.....	10
5. Fee for a certificate under the seal of the university..	2

No registration will be accepted for less than a half-year, and no change in the courses undertaken at the time of registration will be made unless approved by the Dean. *Withdrawals during the half-year will be granted only on recommendation of the Dean and the approval of the President.*

The library fee will not be charged for the first half-year during which a course is completed in the case of students who enter at the beginning of the second half-year and pay the library fee for that year.

## PAYMENT OF FEES

Matriculation and library fees are due in full in advance. Tuition may be paid in eight monthly installments in advance. Students unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. Fees are payable at the office of the Treasurer of the University, 2024 G Street, or of the Secretary of the Law School.

## ROOMS, BOARD AND GENERAL EXPENSES

The following table gives an estimate of the expenses for a year of thirty-six weeks.

	LOW	AVERAGE	HIGH
Tuition and library fee.....	123.00	\$123.00	\$123.00
Room and board.....	200.00	250.00	300.00
Laundry.....	15.00	25.00	35.00
Text books and stationary.....	25.00	35.00	45.00
Totals.....	363.00	433.00	503.00

A register of boarding houses is kept by the Treasurer of the University.

For catalogues, application blanks and further information address.

THE SECRETARY OF THE LAW SCHOOL,

*George Washington University.*



## MEDICAL SCHOOL

### FACULTY

- CHARLES HERBERT STOCKTON, LL.D....PRESIDENT OF THE UNIVERSITY  
 WILLIAM CLINE BORDEN, M.D.....Dean, and Professor of Surgery  
 J. FORD THOMPSON, M.D.....Professor of Surgery, Emeritus  
 GEORGE NICHOLAS ACKER, A.M., M.D.,  
     Professor of Pediatrics and Clinical Professor of Medicine  
 HENRY CRÈCY YARROW, M.D.....Professor of Dermatology, Emeritus  
 DANIEL KERFOOT SHUTE, A.B., M.D.,  
     Professor of Neuro-Anatomy and Clinical Professor of Ophthalmology  
 STERLING RUFFIN, M.D.....Professor of Medicine  
 CHARLES EDWARD MUNROE, Ph.D., LL.D.....Professor of Chemistry  
 CHARLES WILLIAMSON RICHARDSON, M.D.,  
     Professor of Laryngology, Rhinology, and Otology  
 JOHN WESLEY BOVÉE, M.D.....Professor of Gynecology  
 THOMAS ASH CLAYTOR, M.D.....Clinical Professor of Medicine  
 AURELIUS RIVES SHANDS, M.D.....Professor of Orthopedic Surgery  
 RANDOLPH BRYAN CARMICHAEL, M.D.....Professor of Dermatology  
 FRANCIS RANDALL HAGNER, M.D.,  
     Professor of Genito-Urinary Surgery and Venereal Diseases  
 WILLIAM CREIGHTON WOODWARD, LL.M., M.D.,  
     Professor of Medical Jurisprudence  
 ALBERT LIVINGSTON STAVELY, M.D...Clinical Professor of Gynecology  
 WILLIAM ALANSON WHITE, M.D.,  
     Professor of Psychiatry and Clinical Professor of Neurology  
 ARTHUR AUGUSTIN SNYDER, M.D.....Clinical Professor of Surgery  
 SHEPHERD IVORY FRANZ, Ph.D.....Professor of Physiology  
 WILLIAM KENNEDY BUTLER, M.D.....Professor of Ophthalmology  
 BUCKNER MAGILL RANDOLPH, M.D.,  
     Professor of Materia Medica and Therapeutics  
 LUTHER HALSEY REICHELDERFER, M.D., Clinical Professor of Surgery  
 JAMES DUDLEY MORGAN, A.B., M.D.,  
     Clinical and Associate Professor of Medicine  
 LOUIS ANATOLE LA GARDE, M.D.....Professor of Military Surgery  
 GIDEON BROWN MILLER, S.B., M.D...Clinical Professor of Gynecology  
 OSCAR BENWOOD HUNTER, M.D., Professor of Histology and Embryology  
     and Associate Professor of Anatomy  
 W. SINCLAIR BOWEN, M.D.....Clinical Professor of Obstetrics  
 OSCAR ADDISON MACK McKIMMIE, M.D.,  
     Clinical Professor of Laryngology and Otology  
 LOUIS MACKALL, M.D.....Clinical Professor of Medicine  
 CARL LAWRENCE DAVIS, M.D.....Professor of Anatomy  
 EDWARD RHODES STITT, A.B., M.D.....Professor of Tropical Medicine

- FRANK LEECH, M.D.....Clinical Professor of Medicine  
 WILLIAM PHILLIPS CARR, M.D.....Clinical Professor of Surgery  
 HURON WILLIS LAWSON, S.M., M.D.....Professor of Obstetrics  
 FRANK ADELBERT HORNADAY, S.B., M.D.,  
     Professor of Physiological Chemistry  
 JOSEPH DUERSON STOUT, A.M., M.D.....Professor of Pharmacology  
     and Associate Professor of Physiology  
 THOMAS CHARLES MARTIN, M.D.....Professor of Proctology  
 NOBLE PRICE BARNES, M.D.,  
     Associate Professor of Materia Medica and Therapeutics  
 ISABEL KATHERINE BOGAN, M.D.,  
     Associate Professor of Bacteriology and Pathology  
 CHARLES STANLEY WHITE, M.D.....Associate Professor of Surgery  
 DANIEL WEBSTER PRENTISS, S.B., M.D...Clinical Associate in Surgery  
 JOHN BENJAMIN NICHOLS, M.D...Associate in Medicine and Dietetics  
 EDGAR PASQUAL COPELAND, M.D.....Associate in Pediatrics  
 HARRY HAMPTON DONNALLY, A.M., M.D., Clinical Associate in Pediatrics  
 WILLIAM FRANCIS MATTINGLY SOWERS, A.B., M.D., Associate in Surgery  
 HENRY RANDALL ELLIOTT, M.D.....Associate in Physiology  
 JOHN T. KELLEY, M.D.....Clinical Associate in Obstetrics  
 J. LEWIS RIGGLES, M.D.....Associate in Gynecology  
 WILLIAM CABELL MOORE, M.D.....Associate in Medicine  
 CHARLES AUGUSTUS SIMPSON, M.D., Clinical Associate in Dermatology  
 COURSEN BAXTER CONKLIN, M.D.....Associate in Medicine  
 EDWARD GRANT SEIBERT, M.D.,  
     Clinical Instructor in Laryngology and Ophthalmology  
 WALTER HIBBARD MERRILL, M.D...Instructor in Electro-Therapeutics  
 TRUMAN ABBE, M.D.....Clinical Instructor in Surgery  
 VIRGIL B. JACKSON, M.D.....Clinical Instructor in Gynecology  
 EDMUND THOMAS MURDAUGH FRANKLIN, M.D.,  
     Clinical Instructor in Surgery  
 WILLIAM J. FRENCH, M.D.....Instructor in Materia Medica  
 CHARLES WILBUR HYDE, M.D., Instructor in Medicine and Anaesthesia  
 ADAM KEMBLE, M.D., Clinical Instructor in Genito-Urinary Surgery  
 HOMER GIFFORD FULLER, M.D.,  
     Clinical Instructor in Genito-Urinary Surgery and Venereal Diseases  
 CLINE N. CHIPMAN, M.D.....Instructor in Anaesthesia  
 GEORGE HENRY SCHWINN, M.D., Instructor in Psychiatry and Neurology  
 JOHN POTTS FILLBROWN, M.D.....Clinical Instructor in Surgery  
 HARRY HYLAND KERR, M.D.....Instructor in Operative Surgery  
 WILLIAM JOHNSTON MALLORY, A.M., M.D....Instructor in Medicine  
 ALBERT PERKINS TIBBETTS, M.D...Clinical Instructor in Laryngology  
 ELIJAH WHITE TITUS, Phar.D., M.D.....Instructor in Obstetrics  
 DANIEL LE RAY BORDEN, M.D.,  
     Instructor in Surgery and Clinical Instructor in Gynecology  
 ALBERT ELWOOD PAGAN, M.D.,  
     Instructor in Gynecology and Obstetrics



WILLIAM HENRY HUNTINGTON, M.D.,

Clinical Instructor in Laryngology and Otology

J. IRVING SLOAT, M.D.....Instructor in Surgery

JANVIER W. LINDSEY, A.B., M.D.,

Instructor in Physical Diagnosis and Surgery

BERNARD GLUECK, M.D.....Instructor in Psychiatry

HARRY SAMUEL LEWIS, M.D.....Clinical Instructor in Surgery

THOMAS P. MILLER, JR., M.D. Instructor in Bacteriology and Pathology

DWIGHT GORDON SMITH, M.D.....Clinical Instructor in Medicine

JOHN HUNTER SELBY, M.D.....Instructor in Radiography

EDGAR SNOWDEN, M.D.,

Instructor in Hygiene and Clinical Instructor in Medicine

ROBERT S. TRIMBLE, M.D.....Clinical Instructor in Medicine

WILLIAM BROWNE CARR, M.D.....Instructor in Morbid Anatomy

HARRY A. BISHOP, M.D.....Clinical Instructor in Neurology

OLIVER CLEMENCE COX, M.D.....Instructor in Minor Surgery

WILLIAM P. REEVES, M.D.....Clinical Instructor in Surgery

WILLIAM B. MARBURY, M.D.....Instructor in Surgery

SACKS BRICKER, M.D.....Clinical Instructor in Obstetrics

SAMUEL HARRISON GREENE, M.D.,

Clinical Instructor in Laryngology and Otology

WILLIAM HOUSTON LITTLEPAGE, M.D., Clinical Instructor in Medicine

JAMES ROBERT SCOTT, M.D.. Instructor in Bacteriology and Pathology

LOUIS BERNARD CASTELL, M.D., Phar.D.. Instructor in Pharmacology

#### HOSPITAL

#### THE STAFF OF THE GEORGE WASHINGTON UNIVERSITY HOSPITAL AND DISPENSARY

STERLING RUFFIN, M.D.....Physician-in-Chief

GEORGE NICHOLAS ACKER, M.D.....Associate Physician

BUCKNER MAGILL RANDOLPH, M.D.....Associate Physician

COURSEN BAXTER CONKLIN, M.D.....Associate Physician

WILLIAM CLINE BORDEN, M.D.....Surgeon-in-Chief

CHARLES STANLEY WHITE, M.D.....Associate Surgeon

AURELIUS RIVES SHANDS, M.D.....Orthopedic Surgeon

FRANCIS RANDALL HAGNER, M.D.....Genito-Urinary Surgeon

HOMER GIFFORD FULLER, M.D.....Associate Genito-Urinary Surgeon

JOHN WESLEY BOYÈ, M.D.....Gynecologist-in-Chief

GIDEON BROWN MILLER, S.B., M.D.....Associate Gynecologist

HURON WILLIS LAWSON, M.D.....Obstetrician-in-Chief

ELIJAH WHITE TITUS, M.D.....Assistant Obstetrician

GEORGE NICHOLAS ACKER, M.D.....Pediatrician-in-Chief

EDGAR PASQUAL COPELAND, M.D.....Associate Pediatrician

HENRY CRÈCY YARROW, M.D.....Dermatologist-in-Chief

RANDOLPH BRYAN CARMICHAEL, M.D.....Associate Dermatologist

CHARLES WILLIAMSON RICHARDSON, M.D.....Laryngologist

DANIEL KERFOOT SHUTE, M.D.....Ophthalmologist

WILLIAM KENNEDY BUTLER, M.D.....Ophthalmologist  
EDWARD GRANT SEIBERT, M.D.,

Associate Laryngologist and Ophthalmologist

WALTER HIBBARD MERRILL, M.D.....Radiographer

ISABEL KATHERINE BOGAN, M.D.....Pathologist

FRANK ADELBERT HORNADAY, S.B., M.D.,

Director of the Clinical Laboratory

CHARLES WILBUR HYDE, M.D.....Anaesthetist

CLINE N. CHIPMAN, M.D.....Anaesthetist

EUGENE DEYERLE SUPPLEE, M.D.....Resident Physician

TSANNYOEN PHILIP SZE, M.D.....Associate Resident Physician

ARTHUR HOWARD MCCRAY.....Senior Student Intern

PAUL STERLING PUTZKI.....Senior Student Intern

EARL BURTON CARR.....Senior Student Intern

FRANK M. CERVONN, A.B., Phar.D.....Pharmacist

MARY WINIFRED GLASCOCK, R.N.,.....Superintendent of Nurses and

Principal of the Training School for Nurses

JOHN BRUCE COPPING.....Superintendent of the Hospital

#### DISPENSARY

STERLING RUFFIN, M.D.....Physician-in-Chief

JOHN WESLEY BOVÉE, M.D.....Gynecologist-in-Chief

WILLIAM CLINE BORDEN, M.D.....Surgeon-in-Chief

HURON WILLIS LAWSON, A.M., M.D.....Obstetrician-in-Chief

J. IRVING SLOAT, M.D.....Director of the Dispensary

#### General Medicine

BUCKNER MAGILL RANDOLPH, M.D.....Attending Physician

WILLIAM CABELL MOORE, M.D.....Attending Physician

WILLIAM JOHNSTON MALLORY, M.D.....Attending Physician

ROBERT S. TRIMBLE, M.D.....Attending Physician

ALBERT ELWOOD PAGAN, M.D.....Attending Physician

#### General Surgery

TRUMAN ABBE, M.D.....Attending Surgeon

EDMUND THOMAS MURDAUGH FRANKLIN, M.D.....Attending Surgeon

JOHN POTTS FILLEBROWN, M.D.....Attending Surgeon

JANVIER W. LINDSEY, M.D.....Attending Surgeon

#### Genito-Urinary Diseases

FRANCIS RANDALL HAGNER, M.D.....Genito-Urinary Surgeon

HOMER GIFFORD FULLER, M.D.....Associate Surgeon

ADAM KEMBLE, M.D.....Associate Surgeon

J. IRVING SLOAT, M.D.....Associate Surgeon

#### Gynecology

DANIEL LERAY BORDEN, M.D.....Attending Gynecologist

ALBERT ELWOOD PAGAN, M.D.....Attending Gynecologist



**Obstetrics**

HURON WILLIS LAWSON, M.D.....Obstetrician-in-Chief  
 ELIJAH WHITE TITUS, M.D.....Assistant Obstetrician

**Eye, Ear, Throat, and Nose**

EDWARD GRANT SEIBERT, M.D.....Laryngologist and Ophthalmologist  
 ALBERT PERKINS TIBBETTS, M.D.,  
 Assistant Laryngologist and Otologist

**Neurology**

HARRY A. BISHOP, M.D.....Neurologist

**Radiography**

WALTER HIBBARD MERRILL, M.D.,  
 Electro-Therapeutist and Radiographer  
 JOHN HUNTER SELBY, M.D.....Radiographer

**Dermatology**

CHARLES AUGUSTUS SIMPSON, M.D.....Attending Dermatologist

**Pathology**

ISABEL KATHERINE BOGAN, M.D.....Pathologist

**Laboratory**

FRANK ADELBERT HORNADAY, M.D.....Director

**Medical Building**

HENRY KNOX CRAIG, M.D.....Librarian and Curator of the Museum  
 ROBERT MAURER, A.B., LL.M.,

Official Evaluator for Premedical Education

PATRICK P. VANE.....Superintendent of the Building  
 ANNA ELIZABETH SELLNER.....Secretary to the Dean

**HISTORICAL**

The *Medical School of the George Washington University*, in the chronological order of establishment, is the seventeenth Medical School in the United States. The first course of lectures began in March, 1825. For many years the school was known as the National Medical College; subsequently as the Department of Medicine of the Columbian University. By virtue of an act of Congress approved January 23, 1904, the Columbian University changed its name to "The George Washington University."

When first established, and for many years thereafter, this school, like most others in this country, gave only a two years' course of five months each. In 1878 the course was lengthened by the establishment of a Spring Session devoted to lectures in certain special subjects. In 1879 the course was lengthened to seven months and attendance upon three annual sessions required, and in 1893 attendance on four annual

courses was made obligatory upon all candidates for the degree of Doctor of Medicine. In order to increase the facilities for actual bedside teaching, the University Hospital and the University Dispensary were established in 1898 and made a part of the Medical School. In 1902 the old Medical School building, in which the exercises had been held since 1867, gave place to the present large and commodious structure.

#### EDUCATIONAL POSITION

The Medical School of the University has been for several years a member of the Association of American Medical Colleges. It is one of Medical Colleges designated as "class A," by the American Medical Association, and it is accredited for all its work by the Combined (Royal) Medical Examining Boards in England.

*The degree of M.D. given by the University is recognized as evidence of adequate medical education by every medical examining board in the United States and with credentials of required preliminary education, will admit the holder of the degree to any state or governmental examination.*

These facts guarantee the character of the work done by the School and insure its students and graduates all the advantages which accrue from such association and recognition.

#### BUILDINGS AND OTHER FACILITIES

##### *Buildings of the Medical Department*

All the buildings adjoin each other and consist of the Medical School Building and the University Hospital and the University Dispensary. They are most advantageously situated in the heart of the city within one block of both systems of car lines. As the Hospital and Dispensary adjoin the School, their clinical facilities are easily accessible to the students, and the pathological material and the material for clinical microscopy and clinical chemistry afforded by the Hospital and Dispensary are directly used in the School laboratories.

*Medical School Building.*—A modern commodious, five-story structure, with spacious, well-lighted, well-ventilated lecture and class rooms, laboratories, and students' rooms. It has an elevator service, and is equipped throughout with steam heat, gas, electricity, and all modern improvements.

*Laboratories.*—Six in number (for anatomy, chemistry, physiological and clinical chemistry, histology and embryology, physiology and pharmacology, and bacteriology and pathology) are fully equipped with the most approved appliances, so that students may adequately pursue the laboratory courses and acquire the technical skill necessary in modern clinical and research methods.

*University Medical Library.*—Open for study and consultation from 9 a.m. to 9 p.m. with a Librarian who is a graduate of Medicine in charge. It contains at present more than 2,000 volumes, and provision is made to



add to it as published the important new works on medicine. The most important medical periodicals are regularly received. The Library is an excellent working collection, as it affords opportunity to read up adequately on the subjects presented in the courses.

*Pathological Museum.*—Contains a great many valuable and interesting specimens. Their number is increased by additions from time to time. These specimens are particularly valuable to the students as illustrating the changes produced by disease.

#### ADVANTAGES OF LOCATION

##### *Advantages of Washington as a place for pursuing the study of medicine*

This city now has nearly half a million inhabitants, providing abundant clinical material to the hospitals, which have an aggregate of over three thousand beds. In these hospitals clinical instruction, in addition to that in the University Hospital, is given by members of the Faculty.

The *great libraries and museums* connected with the various Government institutions afford unparalleled facilities for study.

The Library of the Surgeon General's Office of the United States Army is the most complete medical library in the world, and all leading medical periodicals of the world are subscribed for. All the facilities of this great library are open to *medical students*. There is also the Library of Congress, the Public Library, and the many excellent libraries of the various Government offices, all of which are open to students.

The *Army Medical Museum* affords an unrivalled opportunity for studying the conditions met with in military and general surgery. It contains on exhibition a collection of anatomical and pathological specimens unequalled by any other museum. Other Government museums are the Museum of Hygiene, in connection with the Medical Department of the Navy and the National Museum which contains the most complete and best arranged collection of *materia medica* in the world. The drugs are shown in all their processes of manufacture. The Botanic Gardens, the Smithsonian Institution, the Fish Commission, the Department of Agriculture, all afford opportunities for study both in medicine and its collateral sciences.

On account of the many advantages offered in this city, the *Army and Navy Medical Schools* have been here located. The Alumni of this School are largely represented in all public services, and have been highly successful in passing the rigid examinations given by them. Ten per cent of the total number of the regular medical corps of the United States Army are graduates of this School.

*Aside from the special advantages offered for the study of medicine, the cosmopolitan character of the city of Washington, its climate (not excessively cold in winter), its beauty, and its interests, which, as it is the seat of the General Government, are broad and national, make it an ideal place for a medical student to pass his four years of study.*

## ADMISSION

The requirements for admission to the Medical School for the session 1915-16 are as follows:

Candidates for matriculation must present creditable certificates of good moral character from two physicians in good standing.

The educational requirements for admission are:

A. The minimum requirement for admission is one year of college work in Physics, Chemistry, Biology, and a Modern Language, preceded by fourteen units of secondary school work made up as follows:

*Seven Required Units.*—English (Reading and Practice), 2 units; Algebra to quadratics, 1 unit; Plane Geometry, 1 unit; German or French, or Latin or Greek, 2 units; History, 1 unit.

*Seven Elective Units.*—To be selected from the following: English, Mathematics, Latin, Greek, German, French, Spanish, Scandinavian, Science with laboratory work, Agriculture, Drawing, Manual Training, Domestic Science, Music.

B. A Bachelor's degree from an approved college or University.

A unit is the credit value of 36 weeks' work of five recitation periods per week, each period to be not less than 40 minutes. A point is a subject pursued through one-half the above time. Two points may be considered the equivalent of one unit.

An examination is given by the University in the latter part of May and September of each year to students who are deficient in whole or part of the subjects required for entrance to the Premedical Course. Candidates desiring examination must submit an application for the examination and submit certificates of character to the Dean before the first of the month in which they desire to be examined.

Certificates from reputable instructors recognized by the State Board of Medical Examiners duly authorized by law or by the Superintendent of public instruction in States having no examining board may be accepted in lieu of any part of the examination.

As the laws relating to the preliminary educational qualifications required of physicians differ in many of the States of the Union, candidates are advised to make themselves familiar with the provisions of the medical statutes of the States in which they contemplate applying for license to practice. Attention to this precaution may save future embarrassment.

## PRELIMINARY (PREMEDICAL) YEAR

A preliminary year is offered by the University to meet the requirement of a year of College work necessary to enter the freshman class in Medicine. This year is given in Columbian College of the Department of Arts and Sciences. Students desiring to take this year will be ad-



mitted on the *fourteen* unit entrance requirement set forth on page 145 of this catalogue and will be required to pursue the full year's courses in a Modern Language and both didactic and laboratory in Biology, Physics and Chemistry.

**COURSES AND DEGREES OFFERED BY THE UNIVERSITY IN ADDITION TO  
OR IN COMBINATION WITH THE COURSE FOR THE  
DEGREE OF DOCTOR OF MEDICINE**

The states of Alabama, North Dakota, Iowa, Minnesota, South Dakota, Colorado and Indiana now require applicants for the practice of medicine to have two years of college work in addition to graduation in medicine.

To students who intend to practice in these states or who desire two years of college work before entering upon the study of medicine, the University offers a six-year combination course, by which a student may meet the requirements of these states and at the same time obtain the degree of Bachelor of Science in Medicine and Doctor of Medicine.

**Admission to Columbian College**

Applicants for admission to the Freshman Class in Columbian College for the combined courses leading to the degrees of Bachelor of Arts or Bachelor of Science in Medicine and Doctor of Medicine must meet the general admission requirements of *fifteen* units. A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. *The fifteen units of the entrance requirements must include English, 3 units; Mathematics, 2½ units, and one of the following languages: Latin, Greek, French, German, or Spanish, 2 units.* The remainder of the requirement is elective and may be satisfied in general by any accredited secondary school subjects.

**Six-year course for the Degree of Bachelor of Science in Medicine and Doctor of  
Medicine**

Regular students enrolling for this course will complete two years of work aggregating at least thirty-six prescribed hours in Columbian College, and the four-year course in the Medical School. On the completion of this six-year course the student will receive at the same time the degree of Bachelor of Science in Medicine and Doctor of Medicine. The curriculum requirement for this combined six-year course is as follows:

a. Columbian College:

SUBJECT	HOURS
Biological Sciences:	
Zoology 1.....	3
Botany 1.....	3
Chemistry 1, 2, 23.....	7
English 1 or 2.....	3
German, French, or Spanish.....	6
History.....	3
Mathematics 3 or 6.....	3
Physics 3 and 2.....	5
Psychology and Logic.....	3
	—
	36

b. Medical School:

The four-year course for the degree of Doctor of Medicine.

Seven-year course for the Degree of Bachelor of Arts and Doctor of Medicine

Regular students in this course will complete at least forty-eight hours, as prescribed in Columbian College, and the four-year course in the Medical School. On the completion of the prescribed forty-eight hours of work in Columbian College and the first year of the regular course in Medicine, the student will receive the degree of Bachelor of Arts.

The forty-eight hours of prescribed subjects in Columbian College are as follows:

Columbian College:

SUBJECT	HOURS
Biological Sciences:	
Zoology 1, 2.....	6
Botany 1.....	3
Chemistry 1, 2, 23.....	7
English 1 or 2.....	3
German.....	6
French or Spanish.....	6
History.....	3
Mathematics 3 or 6.....	3
Physics 3 and 2.....	5
Psychology and Logic.....	3
Economics, History, or English.....	3
	—
	48



## ADMISSION OF STUDENTS FROM OTHER SCHOOLS

Students who have attended one or more terms at any other medical college in good standing, and who have the necessary preliminary educational requirements, may be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter, or upon presenting certificates of examination covering courses equal to those in this School.

Students who have been in attendance upon an Arts course in other accredited colleges or universities may be admitted to advanced standing in any of the premedical courses offered by the University upon examination or upon presentation of properly certified evidence of satisfactory completion of work for which credit is asked.

Students, approved by the Dean, not candidates for the degree of Doctor of Medicine, may be admitted as special students to any of the courses, provided they have the educational attainments which will enable them to pursue properly the studies they elect.

## ACADEMIC YEAR

The *Academic Year* begins on the last Wednesday in September and ends on the Wednesday following the Wednesday nearest the first day of June. It is divided into two half-years of four months each.

The term of study for the degree of Doctor of Medicine consists of four years of thirty-two weeks each, exclusive of vacations and holidays. The next session, the ninety-third, begins September 29, 1915, and ends June 7, 1916.

Students must register promptly at the beginning of the session, in order that their time of study shall count as a full year.

## SYSTEM OF INSTRUCTION

Instruction is carried on by laboratory work, lectures, recitations, bedside instruction, and hospital and dispensary clinics. Particular stress is laid upon laboratory work and clinical teaching. The clinical material of the University Hospital and Dispensary is utilized to the fullest extent, as the Hospital, the Dispensary, and the Medical School are under the same control. Additional clinics are given in other hospitals in the city to which members of the faculty are attached.

While the greatest stress is laid upon laboratory work and clinical teaching, it is recognized that the facts so obtained must be correlated and shown in their due relation to each other and to the science of medicine. To this end didactic lectures are maintained in certain branches, as they have been found necessary to give a systematic and comprehensive idea of the larger subjects in medicine. These lectures are followed by systematic and thorough quizzes, so that it may be certain that the students properly and thoroughly grasp the ideas presented by the lecturers.

The recitation and quiz work is made so complete that students do not need to employ private quizmasters.

The object sought throughout the courses is to ground thoroughly the students in the knowledge which is necessary to a practitioner of medicine. No particular attempt is made to graduate specialists in any subject. It is believed that the four years allowed are no more than sufficient time for the adequate preparation of the general practitioner.

*The policy adopted by the School is to give a comprehensive, well graded and well-proportioned course—one that will adequately prepare the graduate to practice general medicine and meet the requirements of State Boards.*

#### ORDER OF INSTRUCTION

The subjects studied in each year are shown in the following table. Major subjects are in italics:

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
<i>Anatomy.</i>	<i>Anatomy.</i>	<i>Medicine.</i>	<i>Medicine.</i>
<i>Histology.</i>	<i>Physiological</i>	<i>Surgery.</i>	<i>Surgery.</i>
<i>Embryology.</i>	<i>Chemistry.</i>	Surgical	Orthopædics.
<i>Physiology.</i>	<i>Pathology.</i>	Pathology.	Genito-Urinary
<i>Chemistry.</i>	<i>Bacteriology.</i>	Fractures and	Diseases.
	<i>Materia Medica.</i>	Dislocations.	Operative
	<i>Pharmacology.</i>	Clinical	Surgery.
	<i>Minor Surgery.</i>	Microscopy.	Gunshot
	<i>Physical</i>	<i>Obstetrics.</i>	Wounds.
	<i>Diagnosis.</i>	<i>Therapeutics.</i>	<i>Obstetrics.</i>
	<i>Pathological</i>	Radiography	<i>Gynecology.</i>
	<i>Physiology.</i>	Radiotherapy	Laryngology
	<i>Hygiene.</i>	<i>Gynecology.</i>	and Otology.
	<i>Psychology</i>	Medical	Ophthalmology
		Jurisprudence.	Dermatology.
		Clinical	Psychiatry.
		Chemistry.	Pediatrics.
		Dietetics.	Neurology.
		Physical	<i>Clinics.</i>
		Diagnosis.	
		Tropical	
		Medicine.	
		<i>Clinics.</i>	

The clinics above listed comprise the medical, surgical, and other clinics given in the third and fourth years, and are as hereafter noted under the announcements of the different clinical subjects.



## PROFESSIONAL DEPARTMENTS

OUTLINE OF CURRICULUM  
Hours of Required Work in Each Subject  
(On the basis of 32 actual weeks in each year)

SUBJECTS	YEARS	HOURS		
		Totals*†	Didactic, Lab. and Clinical	Didactic not to exceed
Anatomy.....	I	490		90
Anatomy.....	II	168		30
		—	658	— 120
Histology and Embryology.....	I	224		60
		—	224	— 60
Chemistry.....	I	308		90
Chemistry.....	II	100		30
		—	408	— 120
Physiology.....	I	184		72
Physiology.....	II	68		32
		—	252	— 104
Psychology.....	II	32		32
		—	32	— 32
Bacteriology.....	II	126		30
Pathology.....	II	282		60
		—	408	— 90
Hygiene.....	II	32		32
		—	32	— 32
Dietetics.....	III	24		24
		—	24	— 24
Pharmacology.....	II	140		28
Materia medica.....	II	40		40
Therapeutics.....	III	64		64
Radiotherapy.....	III	8		8
		—	252	— 140
Gynecology.....	III and IV	144		48
		—	144	— 48
Obstetrics.....	III and IV	192		64
		—	192	— 64

\*The number of hours represents the amount of time each student devotes to the course. In addition to the hours scheduled in the third and fourth years, each student is required to do satisfactorily considerable practical work; he is assigned to cases in the University and Garfield Hospitals, is required to assist at operations, to attend cases of labor, administer anesthetics, attend autopsies, and to take the history of cases. Fully 120 hours annually are required to do this unscheduled work.

† Subject to variation.

SUBJECTS	YEARS	HOURS (continued)	
		Totals Didac- tic, Lab. and Clinical	Didactic not to exceed
Medicine.....	II, III, IV		
General Medicine.....		606	200
Clinical Microscopy and Clinical Pathology.....		64	0
Physical Diagnosis.....		80	40
Tropical Diseases.....		12	12
Dermatology.....		48	12
Pediatrics.....		120	18
Neurology.....		64	24
Psychiatry.....		42	12
Medical Jurisprudence.....		30	30
		— 1066	— 348
Surgery.....	II, III, IV		
General Surgery.....		540	144
Minor Surgery.....		40	20
Surgical Pathology.....		12	12
Radiography.....		16	0
Fractures, etc.....		16	16
Military Surgery.....		8	8
Ophthalmology.....		64	16
Otology and Laryngology.....		60	24
Genito-Urinary Surgery.....		48	16
Orthopedics.....		48	16
		— 852	— 272
Grand totals.....		4536	1454

## ANATOMY

CARL LAWRENCE DAVIS, M.D..... Professor  
 OSCAR BENWOOD HUNTER, M.D..... Professor of Histology and  
 Embryology and Associate Professor of Anatomy

The instruction in the various anatomical sciences—gross human anatomy, neurology, embryology and histology—is carried on by the Division of Anatomy of which the Professor of Anatomy is the head.

This insures complete correlation of the various anatomical branches and adequate instruction in each.

During the first year the course in Gross Anatomy is given mainly by practical laboratory work.

The greater portion of the course is given during the first year thus enabling the student to apply his early knowledge of Anatomy to his other branches of study. Complete disarticulated skeletons are loaned to the students, so that they may familiarize themselves with the osteo-



logical features of the various parts during their dissection. Each student is required to dissect satisfactorily the lateral half of a cadaver. The dissecting room work is supplemented by demonstration, recitation and lectures, illustrated by lantern slides, models, diagrams and special dissections. The systematic study of the gross and minute anatomy of the central nervous system and organs of special sense is pursued by means of lectures, recitations, and laboratory work.

In the second year a course in topographical anatomy is given, in which recitations and laboratory demonstrations, frozen sections and special dissections are used to familiarize the student thoroughly with the subject.

Throughout the course every opportunity is taken to emphasize the application of anatomy to the practice of medicine in all its departments.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Anatomy.....	I	490	90
Anatomy.....	II	168	30
		— 658	— 120

In Histology instruction is given in the care and use of the microscope and in the preparation of tissues (fixing, blocking, cutting, staining, etc) for microscopical examination, and a systematic study is made of the minute structure of the tissues and organs of the body, the laboratory work being supplemented by lectures, recitations and stereopticon demonstrations.

The course in Embryology is devoted to the study of marine material, showing maturation, impregnation, segmentation, etc., and to series of chick and mammalian embryos, special stress being laid upon the development of the foetal membranes and organs. Lectures, recitations and demonstrations with laboratory models are also given.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Histology and Embryology.....	I	224	60
		— 224	— 60

#### PHYSIOLOGY

SHEPHERD IVORY FRANZ, Ph.D.....	Professor
JOSEPH DUERSON STOUT, A.M., M.D.....	Associate Professor
HENRY RANDALL ELLIOTT, M.D.....	Associate

The course in physiology consists of lectures, recitations, demonstrations, laboratory exercises and conferences during the first and second years. It begins in the second-half of the first year, so that the

student is early in his course in medicine introduced to the functional viewpoint. The functions of the nervous system and special senses, of the blood, of the heart and circulatory system, of glands, of the digestive system, of the respiratory mechanisms, and of reproduction are considered by means of lectures and recitations, and, as far as possible, experimentally. In the laboratory each student performs the main experiments illustrating the facts regarding bodily function, and demonstration experiments are given of those functions which are too complex for the student to perform himself. In this laboratory work each student is required to keep records of his experiments, and each experiment is supervised and the record criticized and checked by one of the instructors before the student leaves the laboratory for the day. The class is divided into sections for oral recitations, which are supplemented by written recitations.

After the completion of the work in normal physiology in the second year, a series of laboratory exercises on the physiological action of drugs is given (see the announcement under Department of Pharmacology and Therapeutics), and in conjunction with that laboratory work lectures are given and recitations are held in which the functional disturbances in disease are considered. In this course special attention is given to the abnormalities of action of the heart and circulatory system, to the mechanical disturbances in respiration, and to the disturbances of the nervous system and the special senses. By this course it is intended to bring the course in normal physiology into closer relations with the succeeding courses in Pathology, Therapeutics and General Medicine.

The course in psychology aims to give, by lectures and conferences, the main facts regarding mental processes, and to develop the psychological aspect of medicine, upon which so much emphasis has recently been laid. The course is primarily medical in its treatment and thus deals with pathological as well as normal mental phenomena, but without encroaching upon the courses in Psychiatry and Neurology.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Physiology.....	I	184	72
Physiology.....	II	68	32
		— 252	— 104
Psychology.....		32	32

#### CHEMISTRY

CHARLES EDWARD MUNROE, Ph.D., LL.D.....Professor  
FRANK ADELBERT HORNADAY, S.B., M.D.,

Professor of Physiological Chemistry



*Inorganic Chemistry.*—A series of recitations, in which the subject is reviewed and its relation to medicine emphasized.

*Qualitative Analysis.*—An abridged course, with stress upon its application in medicine.

*Organic Chemistry.*—A series of lectures, laboratory work, and recitations on the acyclic and cyclic hydrocarbons and their derivatives, with special reference to physiology and medicine.

*Physiological Chemistry.*—A series of lectures, laboratory work and recitations on the proximate principles of the human body.

*Clinical Chemistry.*—A thorough course is given in which material from the University Hospital and Dispensary is utilized to show the practical application of this subject in medicine.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Chemistry.....			
Inorganic Review	I	308	90
Qualitative Analysis			
Organic			
Physiological.....	II	100	30
		— 408	— 120
*Clinical Chemistry.....	III	48	12

#### MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS

BUCKNER MAGILL RANDOLPH, M.D.....	Professor
JOSEPH DUERSON STOUT, A.M., M.D.....	Professor of Pharmacology
NOBLE PRICE BARNES, M.D.....	Associate Professor
WALTER HIBBARD MERRILL, M.D.....	Instructor
WILLIAM J. FRENCH, M.D.....	Instructor

*Second Year.*—(1) Lectures upon *Materia Medica*, including a demonstration of drugs and their preparations. (2) Recitations upon the preparations, their doses, and the various antidotes for poisons. (3) Practical exercises in prescription writing. (4) Demonstrations of drugs. (5) Pharmacology. The course in Pharmacology is given in the second year, having two three-hour laboratory periods and a one-hour recitation period each week. During the laboratory exercises the students, divided into small groups under instructors, investigate the action of the most common drugs, including alcohol, ether, chloroform, digitalis, aconite, strychnine, etc., by actual experiment. They are taught what effects to expect from the use of a given drug and to observe the results as they occur. The number of drugs covered in this work is about seventy, including both inorganic and organic series.

*Third Year.*—(1) Systematic lectures and recitations on the physiological action of drugs and other remedial agents, as demonstrated by lab-

\*See also announcement under Medicine.

oratory experiment and clinical application; their therapeutic use in disease; their modes of administration; and a review of their toxicology. (2) A review of the principles of prescription writing, with practical exercises by students in writing prescriptions in the metric and English systems. (3) Lectures in applied therapeutics, devoted to the study of the application of remedial measures to morbid physiological and pathological states, as they occur clinically. (4) Lectures and section demonstrations in electro-therapeutics and Roentgen therapy.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Pharmacology.....	II	140	28
Materia Medica and Toxicology...	II	40	40
Therapeutics.....	III	64	64
Radiotherapy.....	III	8	8
		— 252	— 140

#### DIETETICS

JOHN BENJAMIN NICHOLS, M.D..... Associate

A course of lectures on the physiology of nutrition and principles of feeding in health and disease.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic
Dietetics.....	III	24	24

#### PATHOLOGY AND BACTERIOLOGY

ISABEL KATHERINE BOGAN, M.D.,

Associate Professor of Bacteriology and Pathology

THOMAS MILLER, JR., M.D., Instructor in Bacteriology and Pathology

WILLIAM BROWNE CARR, M.D..... Instructor in Morbid Anatomy

JAMES ROBERT SCOTT, M.D., Instructor in Bacteriology and Pathology

#### BACTERIOLOGY

The laboratory portion of this course consists, in the first place, of instruction of the whole class in the manufacture of culture media, all the standard, and many of the special media, being prepared by the class in groups, as their practical needs require. In this connection and at later periods throughout the course, the particulars of sterilization and disinfection are thoroughly covered. The systematic portion of the course in the laboratory consists in the detailed study by culture, by the microscope, and by biological methods, of some thirty-five different micro-organisms mostly of the pathogenic group.



During the course, where occasion arises in connection with special cases of interest in the hospital, or elsewhere at our command, a number of unusual infections or rarely occurring processes of diagnosis, etc., are demonstrated.

In connection with the experience given in microscopic preparation, staining, etc., a thorough discipline in the use of the compound microscope as applied in the high powers is afforded, together with a review of the necessary theories of microscopic optics.

*Infection and Immunity.*—This important portion of the subject which may be considered as the theoretical side of Bacteriology in its relation to Pathology, is dealt with systematically throughout the year in a series of lectures, once a week or more frequently.

All the known methods of attack on the animal body by bacteria, and all the theories as well as facts of the defence of the animal body against this attack are dealt with both in historical and logical sequence. The so-called "schools" (of von Metchnikoff, Bordet, and Ehrlich) are considered in parallel with the history of the subject.

Not only by lectures but by demonstrations as well, such features of practical immunology as the agglutination reaction, lysis, and phagocytosis are demonstrated and inquired into by the students themselves. During the year, demonstration of the practical diagnostic work in the laboratory, covers the whole field of Wassermann and complement fixation technic.

#### PATHOLOGY

In the course in Pathology, the division of the course into laboratory and lecture teaching is also followed. The *general pathology* of inflammation, of degenerations, of the healing of wounds, of new growths, etc.; and the *special pathology* of the organs and of special diseases, is taken up in a set of daily lectures extending from February to June.

The laboratory work consists in the first place, when obtainable, of the study of autopsy material and that derived from the operating room. The ground work of the practical material studied, however, is afforded by two sources; one representing the thorough study of the frequent and illustrative disease *tissues* in microscopic section, and the other, in the pathological museum, affording a good general review of gross morbid anatomy. About two hundred sections are stained, mounted and examined—and illustrative drawings of each made—by the students themselves during the course. This material becomes the property of the students.

Varying in number with the extent of material afforded, a few students have the opportunity each year of training in all the details of post mortem technic, from the autopsy theatre through the preparation, sectioning, and staining, of the tissue to be studied, to their final diagnosis and report as determined under the direction of the Pathologist to the Hospital.

The course in *Clinical Microscopy* comprises the study and examination of various tissues, fluids, and material from the standpoint of diagnosis.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Bacteriology.....	II	126	30
Pathology.....	II	282	60
		— 408	— 90
*Clinical Microscopy.....		64	0

MEDICINE

STERLING RUFFIN, M.D.....Professor

GEORGE NICHOLAS ACKER, A.M., M.D.,

Professor of Pediatrics and Clinical Professor of Medicine

THOMAS ASH CLAYTOR, M.D.....Clinical Professor of Medicine

RANDOLPH BRYAN CARMICHAEL, M.D.....Professor of Dermatology

WILLIAM CREIGHTON WOODWARD, LL.M., M.D.,

Professor of Medical Jurisprudence

WILLIAM ALANSON WHITE, M.D.,

Professor of Psychiatry and Clinical Professor of Neurology

JAMES DUDLEY MORGAN, A.B., M.D.,

Clinical and Associate Professor of Medicine

LOUIS MACKALL, M.D.....Clinical Professor of Medicine

EDWARD RHODES STITT, A.B., M.D.....Professor of Tropical Medicine

FRANK LEECH, M.D.....Clinical Professor of Medicine

JOHN BENJAMIN NICHOLS, M.D.....Associate in Medicine and Dietetics

EDGAR PASQUAL COPELAND, M.D.....Associate in Pediatrics

HARRY HAMPTON DONNALLY, A.M., M.D., Clinical Associate in Pediatrics

WILLIAM CABELL MOORE, M.D.....Associate in Medicine

CHARLES AUGUSTUS SIMPSON, M.D.....Associate in Dermatology

COURSEN BAXTER CONKLIN, M.D.....Associate in Medicine

CHARLES WILBUR HYDE, M.D.. Instructor in Medicine and Anaesthesia

GEORGE HENRY SCHWINN, M.D., Instructor in Psychiatry and Neurology

WILLIAM JOHNSTON MALLORY, M.D.....Instructor in Medicine

JANVIER W. LINDSAY, A.B., M.D.... Instructor in Physical Diagnosis

BERNARD GLUECK, M.D.....Instructor in Psychiatry

DWIGHT GORDON SMITH, M.D.....Clinical Instructor in Medicine

EDGAR SNOWDEN, M.D.,

Instructor in Hygiene, and Clinical Instructor in Medicine

ROBERT S. TRIMBLE, M.D.....Clinical Instructor in Medicine

HARRY A. BISHOP, M.D.....Clinical Instructor in Neurology

WILLIAM HOUSTON LITTLEPAGE, M.D., Clinical Instructor in Medicine

Instruction in Medicine is so given as to conform to the most modern requirements. The work begins in the second year with a complete course in history-taking and normal physical diagnosis, and is continued

\*See also announcement under Medicine.



through the third and fourth years. During the latter two years the course consists of lectures, recitations, a study of case histories, clinical conferences, and practical work in the clinical laboratory and at the bedside. The work is made as practical as possible.

The third-year class is divided into small sections, which are required to attend the daily dispensary service in the University Hospital, where they are drilled especially in history-taking and in the technique of practical physical diagnosis.

The fourth-year class is similarly divided into small sections, and these are required to attend the daily ward clinics in the University Hospital and ward clinics in the Garfield Memorial Hospital, Children's Hospital, and the Tuberculosis Hospital of the District of Columbia.

The system of ward clinics to small groups of students afford a most effective method of studying disease and gives to every student an opportunity of following a large assortment of diseases from their commencement to the termination of illness; in no other way is it possible to get a more practical knowledge of the methods of studying disease or a more intimate knowledge of disease itself.

Every patient in the medical wards of the University Hospital is assigned to one, or at most two, senior students, who are required (under proper supervision) to take the history, to make and record a complete physical examination, to determine after due study the nature of the illness (diagnosis), to outline a plan of treatment, and to make daily notes of the progress of the case.

A weekly amphitheater clinic is given to third-year students in a body and a similar clinic to the fourth-year class. A series of special neurological clinics is provided for the senior class at the Government Hospital for the Insane, where there is a great wealth of material (see announcement of Psychiatry and Clinical Neurology).

SUBJECT	YEARS	HOURS	
		Total Didactic Lab. and Clinical	Didactic not to exceed
Medicine.....	II, III, IV		
General Medicine.....		558	188
*Clinical Microscopy and clinic- al pathology.....		64	0
†Clinical chemistry.....		48	12
Physical Diagnosis.....		80	40
Tropical Diseases.....		12	12
Dermatology.....		48	12
Pediatrics.....		120	18
Neurology.....		64	24
Psychiatry.....		42	12
Medical Jurisprudence.....		30	30
		— 1066	— 348

\* See also announcement under Bacteriology and Pathology.

† See also announcement under Chemistry.

## TROPICAL MEDICINE

EDWARD RHODES STITT, A.B., M.D., Surgeon U.S.N.....Professor

The course in tropical diseases is similar to that given in the Army and Navy Medical Schools, and consists of didactic lectures, quizzes, and laboratory instruction, with particular reference to the parasitic, protozoal diseases common in the tropics and in the southern part of the United States.

## PSYCHIATRY AND CLINICAL NEUROLOGY

WILLIAM ALANSON WHITE, M.D., Superintendent of the Government Hospital for the Insane.....Professor

GEORGE HENRY SCHWINN, M.D.....Instructor

BERNARD GLUECK, M.D.....Instructor

HARRY A. BISHOP, M.D.....Clinical Instructor

A series of lectures and clinics is given upon the subject of insanity in its various forms.

These clinics are given at the Government Hospital for the Insane, which, with its more than two thousand beds, affords one of the largest clinics in this country.

Students are taught in the same classes with students of the Army and Navy Medical Schools.

## PEDIATRICS

GEORGE NICHOLAS ACKER, A.M., M.D.....Professor

EDGAR PASQUAL COPELAND, M.D.....Associate

HARRY HAMPTON DONNALLY, M.D.....Clinical Associate

Didactic and clinical lectures, bedside and dispensary clinics are given upon diseases of infants and children and the importance of the proper management of these diseases by diet and hygiene.

The children's clinic, at the Children's Hospital, affords ample material for practical teaching in this branch.

## PHYSICAL DIAGNOSIS

WILLIAM CABELL MOORE, M.D.....Associate

JANVIER W. LINDSEY, A.B., M.D.....Instructor

Instruction is given in the principles and methods of physical examination by means of recitations, section work on normal subjects, and with clinical cases which typically represent diseased conditions.

## DERMATOLOGY

RANDOLPH BRYAN CARMICHAEL, M.D.....Professor

CHARLES AUGUSTUS SIMPSON, M.D.....Associate

The lectures in this course will be principally clinical, supplemented by didactic lectures, illustrated by diagrams, models, and photographic illustrations of disease from life.



## MEDICAL JURISPRUDENCE

WILLIAM CREIGHTON WOODWARD, LL.M., M.D. .... Professor

This course is designed to familiarize students with the rights and obligations of physicians, both legal and ethical, and to qualify them to apply the facts of medical science to the solution of problems in law.

## SURGERY

WILLIAM CLINE BORDEN, M.D. .... Professor

DANIEL KERFOOT SHUTE, M.D. .... Clinical Professor of Ophthalmology

CHARLES WILLIAMSON RICHARDSON, M.D.,

Professor of Laryngology and Otology

AURELIUS RIVES SHANDS, M.D. .... Professor of Orthopedic Surgery

FRANCIS RANDALL HAGNER, M.D. Professor of Genito-Urinary Diseases

ARTHUR AUGUSTIN SNYDER, M.D. .... Clinical Professor of Surgery

WILLIAM KENNEDY BUTLER, M.D. .... Professor of Ophthalmology

LUTHER HALSEY REICHELDERFER, M.D. .... Clinical Professor of Surgery

LOUIS ANATOLE LA GARDE, M.D. .... Professor of Military Surgery

OSCAR ADDISON MACK McKIMMIE, M.D.,

Clinical Professor of Laryngology and Otology

THOMAS CHARLES MARTIN, M.D. .... Professor of Proctology

CHARLES STANLEY WHITE, M.D. .... Associate Professor of Surgery

DANIEL WEBSTER PRENTISS, S.B., M.D. .... Clinical Associate in Surgery

WILLIAM FRANCIS MATTINGLY SOWERS, M.D. .... Associate in Surgery

EDWARD GRANT SEIBERT, M.D. .... Clinical Instructor in Ophthalmology

TRUMAN ABBE, M.D. .... Clinical Instructor in Surgery

JOHN POTTS FILLEBROWN, M.D. .... Clinical Instructor in Surgery

EDMUND THOMAS MURDAUGH FRANKLIN, M.D.,

Clinical Instructor in Surgery

CHARLES WILBUR HYDE, M.D. .... Instructor in Anaesthesia

ADAM KEMBLE, M.D. .... Clinical Instructor in Genito-Urinary Surgery

HOMER GIFFORD FULLER, M.D.

Clinical Instructor in Genito-Urinary Surgery

CLINE N. CHIPMAN, M.D. .... Instructor in Anaesthesia

HARRY HYLAND KERR, M.D. .... Instructor in Surgery

ALBERT PERKINS TIBBETTS, M.D.,

Clinical Instructor in Laryngology and Otology

DANIEL LE RAY BORDEN, M.D. .... Instructor in Surgery

WILLIAM HENRY HUNTINGTON, M.D.,

Clinical Instructor in Laryngology and Otology

J. IRVING SLOAT, M.D. .... Instructor in Surgery

JANVIER W. LINDSEY, A.B., M.D. .... Clinical Instructor in Surgery

HARRY S. LEWIS, M.D. .... Clinical Instructor in Surgery

OLIVER CLEMENCE COX, M.D. .... Instructor in Minor Surgery

WILLIAM P. REEVES, M.D. .... Clinical Instructor in Surgery

WILLIAM B. MARBURY, M.D. .... Instructor in Surgery

The principles of surgery are presented in a systematic course of lectures, so that the student may obtain a comprehensive and adequate concept of the science and art of surgery. These lectures are followed by recitations, so that the subject-matter may be thoroughly impressed upon the students. The special divisions of surgery are taught by associates and instructors who have made specialties of these branches. The clinical material in the University Hospital and Dispensary, being under the control of the Faculty, is directly used throughout the course to illustrate the subjects taught and to familiarize the students with actual clinical conditions.

Surgical technique is taught by instruction in the preparation of materials used in antiseptic and aseptic surgery, the preparation of the patient, and the sterilization of instruments. Practical instruction is given in the Hospital and Dispensary in the application of splints, bandages, and dressings used in the various surgical diseases and injuries. Thorough instruction and practical demonstrations are given in the administration of anaesthetics.

Clinical teaching is carried on in the University Hospital and Dispensary, and in other hospitals of the city to which members of the Faculty are attached. Amphitheater clinics are given, in which the general practice of surgical diagnosis and operative technique and therapeutic procedure are shown.

Ward clinics and bedside instruction are made a prominent part of the course. The classes are divided into sections, which are regularly assigned to clinical work in the University Hospital and Dispensary, and in other hospitals and dispensaries. Senior students are assigned in rotation to individual cases in the wards of the University Hospital.

Practical work is required of each student in the preparation of dressings and sterilization of instruments. Each student is required to give, under instruction, at least six anaesthesias and to assist in at least six operations.

Thorough courses are given in operative surgery and proctology.

SUBJECT	YEARS	HOURS	
		Total Didactic and Clinical	Didactic not to exceed
Surgery.....	II, III, IV		
General Surgery.....		540	144
Minor Surgery.....		40	20
Surgical Pathology.....		12	12
Radiography.....		16	0
Fractures, etc.....		16	16
Military Surgery.....		8	8
Ophthalmology.....		64	16
Laryngology and Otology.....		60	24
Genito-Urinary Surgery.....		48	16
Orthopedics.....		48	16
		— 852	— 272



## SURGICAL PATHOLOGY

WILLIAM FRANCIS MATTINGLY SOWERS, M.D. .... Associate

Surgical pathology is taught by thorough instruction in the gross and microscopic appearance of surgical diseases and injuries, and by a systematic course of lectures and quizzes by which the etiology, pathology, symptomatology, and treatment of the surgical affections and their relations to each other are shown.

## ORTHOPEDICS

AURELIUS RIVES SHANDS, M.D. .... Professor

A course of lectures and recitations on the pathology, etiology, course, termination, and treatment of chronic joint diseases, with clinical instruction in the application of special apparatus and of plaster of Paris to the correction of deformities.

## GENITO-URINARY DISEASES

FRANCIS RANDALL HAGNER, M.D. .... Professor

HOMER GIFFORD FULLER, M.D. .... Clinical Instructor

ADAM KEMBLE, M.D. .... Clinical Instructor

A thorough course of instruction in genito-urinary diseases is given by lectures, recitations, section clinics, and bedside teaching.

## MILITARY SURGERY

LOUIS ANATOLE LA GARDE, M.D. .... Professor

The treatment of gunshot wounds with special reference to civil practice is given in a course of lectures and demonstrations, fully illustrated by lantern slides, X-ray photographs, and actual specimens from a collection made after years of study and experimentation.

The use of the new armaments in recent wars and the characteristic features of the wounds caused by them, as well as the treatment of gunshot wounds in peace and war are fully dealt with.

## OPHTHALMOLOGY

WILLIAM KENNEDY BUTLER, A.M., M.D. .... Professor

DANIEL KERFOOT SHUTE, A.B., M.D. .... Clinical Professor

EDWARD GRANT SEIBERT, M.D. .... Clinical Instructor

The course of lectures on this subject is to direct attention to the elementary principles of the subject. It is not intended to qualify the student as a specialist, but to give him a knowledge of what every general practitioner ought to know. The course is supplemented by clinical instruction.

## LARYNGOLOGY AND OTOTOLOGY

CHARLES WILLIAMSON RICHARDSON, M.D. .... Professor

OSCAR ADDISON MACK MCKIMMIE, M.D. .... Clinical Professor

EDWARD GRANT SEIBERT, M.D.....	Instructor
WILLIAM HENRY HUNTINGTON, M.D.....	Clinical Instructor
ALBERT PERKINS TIBBETTS, M.D.....	Clinical Instructor
SAMUEL HARRISON GREENE, M.D.,	
Clinical Instructor in Laryngology and Otology	

The course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and the ear. Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

#### OBSTETRICS

HURON WILLIS LAWSON, S.M., M.D. ....	Professor
W. SINCLAIR BOWEN, M.D. ....	Clinical Professor
JOHN T. KELLEY, M.D. ....	Clinical Associate
ELIJAH WHITE TITUS, M.D. ....	Instructor
ALBERT ELWOOD PAGAN, M.D. ....	Instructor
SACKS BRICKER, M.D. ....	Clinical Instructor

The course in Obstetrics comprises a series of lectures on the science and art of midwifery, together with practical work. The chief purpose of the lecturer is to arrange, simplify, and explain the matters studied in the text-books so as to render them more easily intelligible and to indicate their relative importance. The lectures are illustrated by diagrams, models, manikins, natural preparations, and instruments. The class is divided into sections, and each student performs various obstetrical operations upon the manikin and receives practical instruction in external pelvimetry and the methods of abdominal palpation and auscultation during pregnancy. Recitations from text-books are held throughout the term. In the fourth year clinical instruction in obstetrics is given, the class being divided into small sections, each section being given bedside instruction, and the individual students being required to attend a stated number of cases.

The out-patient obstetrical service is large and thoroughly organized for instruction. Cases are usually referred several weeks before the expected date of confinement. Each case is promptly investigated by the instructor in charge and assigned to a student who in company with the instructor visits and examines the patient as soon as practicable and thereafter visits the patient at intervals of one week, and attends the case during labor. Students make post-partum visits daily for four days and every other day thereafter until the case is discharged by the instructor

SUBJECT	YEARS	HOURS	
		Totals Didactic and Clinical	Didactic not to exceed
Obstetrics.....	III and IV	192*	64

\* The total number of clinic hours cannot be given, as each student is required to attend ten cases, exclusive of the demonstration work and Ward and Dispensary Clinics above enumerated.



## GYNECOLOGY

JOHN WESLEY BOVÉE, M.D.....	Professor
ALBERT LIVINGSTON STAVELY, M.D.....	Clinical Professor
GIDEON BROWN MILLER, M.D.....	Associate
J. LEWIS RIGGLES, M.D.....	Associate
VIRGIL B. JACKSON, M.D.....	Clinical Instructor
DANIEL LERAY BORDEN, M.D.....	Clinical Instructor
ALBERT ELWOOD PAGAN, M.D.....	Instructor

Gynecology as taught in the third year comprises a course of lectures and text-book recitations. In the fourth year individual students are assigned to cases in the wards of the University Hospital, and the class is taken in sections of one to two students each into the Gynecological Dispensaries for clinical instruction in examinations, diagnosis, and treatment. In larger sections the class attends amphitheater and ward clinics given by the Professor of Gynecology and his assistants.

SUBJECT	YEARS	HOURS	
		Total Didactic and Clinical	Didactic not to exceed
Gynecology.....	III and IV	144	48

## HYGIENE

EDGAR SNOWDEN, M.D.....	Instructor.
-------------------------	-------------

The course in Hygiene is given principally by recitation from a prescribed text-book. Consideration is given to domestic and municipal sanitation and to the principles underlying legislative control of public health.

SUBJECT	YEAR	HOURS	
		Total Didactic and Clinical	Didactic not to exceed
Hygiene.....	II	32	32

## CLINICAL FACILITIES

The following hospitals are open to the students of this school for clinical study, and are extensively used for that purpose:

## University Hospital and the University Dispensary

*H Street, between Thirteenth and Fourteenth Streets N. W. and adjacent to the Medical Building.*—The Hospital and Dispensary are part of the educational equipment of the University. They are integral parts of the Medical School, are entirely controlled by the Faculty of Medicine, and are used primarily in instructing the students in clinical work.

The Dispensary has a large out-patient service in all departments, to which several thousand visits are made annually.

The staff is composed of members of the Faculty of Medicine.

#### Garfield Memorial Hospital

*Florida Avenue and Tenth Street N. W.*—This institution has 118 charity beds. Clinics are given regularly throughout the session by members of the Faculty connected with the visiting staff of the hospital.

Members of the Faculty on the visiting staff: Professors CLAYTOR, MACKALL, MORGAN and LEECH, Clinical Medicine; Professors SNYDER, and REICHELDERFER, Clinical Surgery; Professor STAVELY, Clinical Gynecology; Professor CARMICHAEL, Clinical Dermatology; Professors SHUTE and BUTLER, Clinical Ophthalmology; Professor HAGNER, Clinical Genito-Urinary Surgery; Professor YARROW, Consulting Physician; Professor BOWEN, Clinical Obstetrics.

#### Children's Hospital

*W Street, between Twelfth and Thirteenth Streets N. W.*—Regular instruction is given in the medical and surgical wards by members of the Faculty on the visiting staff of the hospital. This institution has 100 charity beds. There is also a large out-patient department, to which students are regularly assigned for clinical instruction.

Members of the Faculty on the visiting staff: Professor YARROW, Consulting Physician; Professor REICHELDERFER and Dr. KERR, Clinical Surgery; Professors ACKER and LEECH and Drs. COPELAND and DONALLY, Clinical Medicine.

#### Emergency Hospital and Central Dispensary

*Fifteenth Street and Ohio Avenue N.W.*—This hospital has 36 charity beds, and has a very large out-patient service. The large emergency service gives exceptional facilities in Clinical surgery, particularly in fractures and dislocations which are taught in regular clinics by the instructor in this subject.

Members of the Faculty on the visiting staff: Professor HAGNER, Clinical Genito-Urinary Diseases; Professors WHITE and CARR, and Drs. PRENTISS, D. L. BORDEN, JACKSON and LEWIS, Surgery; Professor MORGAN and Drs. D. G. SMITH and SNOWDEN, Clinical Medicine; Professor CARMICHAEL, Clinical Dermatology; Dr. MILLER, Clinical Gynecology; Professor SHANDS, Orthopedics; Professor SHUTE, Ophthalmology; Dr. FRENCH, Pediatrics.

#### Columbia Hospital for Women

*Twenty-fifth Street and Pennsylvania Avenue N. W.*—This hospital has 68 charity beds for diseases peculiar to women, and 50 charity maternity beds. Both the obstetrical and the gynecological services are particularly good and are fully utilized for students.



Members of the Faculty on the visiting staff: Professor BOVÉE and Dr. MILLER, Clinical Gynecology; Professor BOWEN and Drs. KELLY and RIGGLES, Clinical Obstetrics; Professor SHUTE, Ophthalmology; Professor RUFFIN, Visiting Physician.

#### The Government Hospital for the Insane

This hospital is maintained by the United States Government. It has 2,500 beds. Clinical instruction in mental diseases is given by the superintendent of the hospital, Professor W. A. WHITE, and Drs. SCHWINN and GLUECK. Other members of the Faculty on service at this hospital are Professor FRANZ; Professor SHUTE, Consulting Ophthalmologist; Professors RUFFIN, and MORGAN, Consulting Physicians.

#### Episcopal Eye, Ear, Throat, and Nose Hospital

*Fifteenth Street, between L and M Streets N. W.*—Excellent opportunities for clinical instruction in ophthalmology, otology, laryngology, and rhinology are offered by this hospital.

Members of the Faculty on its staff: Professor RICHARDSON, Clinical Otology and Laryngology; Professor McKIMMIE and Dr. HUNTINGTON, Clinical Otology and Laryngology; Professor ACKER, Consulting Physician.

#### Lutheran Dispensary

*Fourteenth and N Streets N. W.*—This dispensary affords good opportunities for clinical study of diseases of the eye, ear, throat, and nose.

Members of the Faculty on its staff: Professor BUTLER, Surgeon-in-Charge; Dr. SEIBERT, Ophthalmology; Professor ACKER, Consulting Physician.

#### Casualty Hospital

*Massachusetts Avenue N. E.*—Opportunities in emergency and dispensary work are offered by this institution.

Members of the Faculty on its staff: Professor ACKER, Consulting Physician; Drs. SLOAT and REEVES, Clinical Surgery.

#### Tuberculosis Hospital

*Fourteenth and Upshur Streets N. W.*—Members of the Faculty on its staff: Professor CLAYTOR, Clinical Medicine; Dr. REICHELDERFER, Clinical Surgery; Professor RICHARDSON, Ophthalmology.

#### CLASSIFICATION AND ADVANCEMENT OF STUDENTS

Students are divided into four classes, according to their proficiency and the time spent, viz: first year, second year, third year, and fourth year.

*Proficiency in all subjects is marked on the scale of 100.*

*Examinations are held at the end of the course in each subject.*

In determining the proficiency of a student his laboratory and clinical work, his quiz record, attendance, and result of examination are all considered.

To be *advanced* a student must obtain a general average of 75 or more in all subjects of the year, and must not fail in more than one major or two minor subjects.

Students who obtain a general average of 75 or more, but who fail in not more than one major or two minors, may be advanced *conditioned* and may be permitted at the next examination period a re-examination in the subjects in which they fail, but all conditions must be removed before a student can be again advanced.

Students who fail of advancement or graduation will not be allowed re-examination, except by special permission of the Faculty, and must repeat all subjects in which they obtained less than 85 during the year, and pass an examination on all majors of preceding years in which they obtained less than 85 before they can be advanced or graduated. Students who fail to appear at the regular examinations will not be examined until the next regular examination, except by special permission of the Faculty. In special examinations a fee of \$5 will be charged for each subject. Students who fail to pass satisfactorily their practical laboratory examinations will be required to repeat the laboratory courses. Students will not be admitted to examination unless they have paid all fees due at the time.

A student who has failed of graduation after repeating his final year will not be permitted to maintain his connection with the school.

#### REQUIREMENTS FOR GRADUATION

Every candidate for the degree of Doctor of Medicine must be at least twenty-one years of age and of reputable character. He must have complied with the admission and other requirements herein set forth. He must have attended at least 80 per cent of all required instruction during four sessions of 32 weeks each in four separate years; must have satisfactorily completed all his courses and passed all his examinations. He must be present at the time specified for the final examinations, and also at Commencement. The degree is not conferred in the absence of a candidate except by special consent of the President's Council. Graduates of other accredited colleges who desire degrees must spend one year in residence at this school.

Candidates who in their work and examinations attain general averages of 90 or more will be presented to the Faculty for consideration with reference to being designated as "having graduated with distinction." If in the opinion of the Faculty such candidates have shown themselves to be possessed of more than ordinary merit, they will have inscribed upon their diplomas beneath their degree the words "with distinction."



## PRIZES

A prize from the Ordronaux Prize Endowment will be awarded under conditions determined by the University authorities.

Professor ACKER gives a prize for the best examination in Pediatrics.

Professor BUTLER gives a prize for the best examination in Ophthalmology.

Professor HAGNER gives a prize for the best examination in Genito-Urinary Diseases.

## HOSPITAL APPOINTMENTS

Internes are annually appointed in the University Hospital. These appointments are made upon competitive examinations under conditions determined by the governing authorities of the Hospital. Appointments to similar positions are open to the graduates and undergraduates of this school in the following other hospitals of the city: Garfield Memorial Hospital, Emergency Hospital, Columbia Hospital for Women, Casualty Hospital, Providence Hospital, Washington Asylum Hospital, Children's Hospital, Episcopal Eye, Ear, Throat, and Nose Hospital.

## FEES AND CONTINGENT EXPENSES

1. Matriculation (payable but once).....	\$5
2. Annual library fee.....	3
3. Tuition fee per annum, including all charges for materials	150
4. Graduation fee.....	10
5. Fee for a certificate under the seal of the University.....	2

A deposit of \$10 to cover breakage in laboratory courses and damage to the building or apparatus is required. Any unforfeited balance is returned to the student.

Persons are allowed to register as auditors for the tuition fees without being required to take active part in the exercises or to pass examinations but no credit will be allowed for such attendance.

No registration will be accepted for less than a full half-year, and no change in the courses undertaken at the time of registration will be made unless approved by the Dean.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rates:

Microscope for Histological Laboratory use.....	\$5
Microscope for Bacteriological, Pathological, and Clinical	
Microscopy Laboratory use.....	6

Matriculation, library, other fees and deposits are due in full in advance. Tuition may be paid in eight monthly installments in advance. Students who are unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond of \$200

as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. All fees are payable at the office of the Dean.

#### FEES FOR PRELIMINARY (PREMEDICAL) YEAR

1. Matriculation (payable but once).....	\$5
2. Annual library fee.....	2
3. Tuition fee per annum, including all charges for materials.....	150
4. Fee for a certificate under the seal of the University..	2
5. Deposit for breakage.....	10
6. Rental of microscope for Biological Laboratory use...	5

#### WITHDRAWALS

*Withdrawals will be granted only on recommendation of the Dean and the approval of the President.*

A certificate of work actually done will be given to any student granted a withdrawal or a transfer to another school during the session. A written request for withdrawal or transfer must be filed with the Dean and no permission to withdraw or transfer, and no certificate of work done will be given a student unless all fees and dues chargeable against him up to the end of the month in which he withdraws have been paid.

#### BOARD AND ROOMS

A register of boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

---

For catalogues, application blanks, and further information, address

THE DEAN

Medical School,  
The George Washington University,  
1325 H Street N. W., Washington, D. C.



## DENTAL SCHOOL

### FACULTY

CHARLES HERBERT STOCKTON, LL.D....PRESIDENT OF THE UNIVERSITY  
JOHN ROLAND WALTON, D.D.S.,

Dean and Professor of Prosthetic Dentistry and Orthodontia

DANIEL KERFOOT SHUTE, M.D. .... Professor of Neuro-Anatomy

HENRY CLAY THOMPSON, D.D.S. .... Professor of Operative Dentistry

CHARLES EDWARD MUNROE, Ph.D., LL.D. .... Professor of Chemistry

CHARLES STANLEY WHITE, M.D. .... Clinical Professor of Oral Surgery

NOBLE PRICE BARNES, M.D.,

Professor of Materia Medica and Therapeutics

OSCAR BENWOOD HUNTER, M.D.,

Professor of Histology and Embryology and Associate

Professor of Anatomy

CARL LAWRENCE DAVIS, M.D. .... Professor of Anatomy

ARTHUR BARTON CRANE, D.D.S. .... Professor of Oral Surgery

JOSEPH DUERSON STOUT, A.B., M.D. .... Professor of Physiology

FRANK ADELBERT HORNADAY, S.B., M.D.,

Professor of Physiological Chemistry

GEORGE MILLER SHARP, D.D.S. .... Professor of Orthodontia

JOHN ROBERT DE FARGES, D.D.S. .... Associate Professor of Dental

Metallurgy, Jurisprudence, Economics, and Ethics

CHARLES TURK BASSETT, D.D.S.,

Associate Professor in Charge of the Dental Infirmary

ALLEN SCOTT WOLFE, D.D.S.,

Associate Professor of Crown and Bridge Work

CADMUS LINDEN ODOR, D.D.S.,

Associate Professor of Operative Technics

WILLIAM FRANCIS LAWRENCE, D.D.S.,

Associate Professor of Prosthetic Technics

D. DEWITT BEEKMAN, D.D.S.,

Associate Professor of Materia Medica and Therapeutics

EUGENE ROGER STONE, D.D.S. .... Associate Professor of Oral Surgery

ISABEL KATHERINE BOGAN, M.D.,

Associate Professor of Bacteriology and Pathology

HARRY RANDALL ELLIOTT, M.D. .... Associate in Physiology

JOHN WINSLOW TAYLOR, D.D.S. .... Instructor in Prosthetic Technics

CHARLES GARDNER SHOEMAKER, D.D.S.,

Instructor in Operative Technics

HENRY CISSEL YOUNG, D.D.S. .... Instructor in Prosthetic Technics

JAMES WALTER BERNHARD, D.D.S.,

Instructor in Crown and Bridge Work

WALTER LOWELL HAGAN, D.D.S.....Instructor in Operative Technics  
GEORGE VON PULLINGER DAVIS, M.D....Instructor in Materia Medica  
CHARLES W. RICH, D.D.S.....Instructor in Prosthetic Technics  
JOHN PRESTON MARSTELLER, D.D.S., Instructor in Prosthetic Technics  
ORVILLE NEWTON FANSLER, D.D.S., Instructor in Prosthetic Technics  
JASPER N. ROBERTS, D.D.S.....Instructor in Prosthetic Technics  
EDWARD EARL GOLDEN, D.D.S., Instructor in Crown and Bridge Work  
HENRY MERLE SPILLAN, D.D.S..Instructor in Crown and Bridge Work  
ARTHUR ALEXANDER EISENBERG, M.D.,  
Instructor in Bacteriology and Pathology  
SAMUEL DANEMANN, D.D.S.....Demonstrator in the Dental Infirmary

#### GENERAL STATEMENT

The first course of lectures in the Dental School began November, 1887, under the title of "The Columbian University Dental Department." The course then extended over two years of five months each. Two years later the course was extended to seven months; but, this additional time being found inadequate to keep pace with the ever-increasing demand for higher dental education, the course was gradually increased, until now it extends over three years of eight months each.

The next academic year begins on Wednesday, September 29, 1915, and ends on Wednesday, June 7, 1916. Students should register promptly at the office of the Dean at the beginning of the session, and no student can be received and credited with a full term after ten days from the first lecture. Final examinations are held at the conclusion of the instruction in each subject. For further information communicate with the Dean of the Dental School.

#### ADMISSION

Candidates for matriculation must show that they are fitted by previous education to study dentistry. For this purpose they must present a satisfactory certificate of their attainments or they must pass an examination.

Candidates are admitted without examination:

1. Upon presenting a diploma or certificate of graduation from a four-year high school, or an equivalent certificate or diploma.
2. Upon presenting a certificate of admission to the Freshman class of a college having like admission requirements.

Candidates unable to comply with the foregoing requirements are admitted upon passing an examination based upon the general requirement for graduation from an accredited four year high school.

The scope of the different subjects is indicated in standard high school text-books.



A candidate may offer certificates of an approved school for work done in any preparatory subjects, and will be credited with the units represented by such work. A candidate failing to pass in two or three subjects of his examination may be admitted to the first year upon the condition that he make up the deficiency before entering the second-year class. The examinations are conducted by an examiner appointed by the Superintendent of Schools of the District of Columbia.

The examinations for admission will be held in June and September. at the Dental School.

#### COURSE OF INSTRUCTION

The course of instruction extends through three years of eight months each. The subjects taught during the course are divided as follows:

FIRST YEAR	SECOND YEAR	THIRD YEAR
Anatomy.	Organic Chemistry.	Operative Dentistry.
Physiology.	Operative Dentistry.	Orthodontia.
General Chemistry.	Prosthetic Dentistry.	Prosthetic Dentistry.
Histology.	Pathology.	Oral Surgery.
Operative Technics.	Materia Medica	Orthodontia Technics.
Prosthetic Technics.	Operative Technics.	Metallurgy.
Special Anatomy.	Prosthetic Technics.	Prosthetic Technics.
Crown work.	Infirmity Practice.	Infirmity Practice.
	Bacteriology.	Dental Therapeutics.
	Dental Histology.	Dental Pathology.
	Orthodontia Technics.	Dental Bacteriology.
	Infirmity Practice.	Oral Prophylaxis.
	Clinics.	Dental Jurisprudence,
	Comparative Dental	Economics and
	Anatomy.	Ethics.
	Crown and Bridge-	Infirmity Practice.
	work.	Clinics.
		Crown and Bridge-
		work.

These studies are further described in the following pages.

Hours of recitation, daily from 4.50 p.m. to 10.30 p.m.; 6.30 to 7.30 p.m., dinner hour.

#### PROSTHETIC DENTISTRY

JOHN ROLAND WALTON, D.D.S.....Professor

All branches in this department will be under the supervision of the professor. He will deliver the lectures and manage in person and through his assistants the quiz work and course of instruction. This system will prevent confusion in method and technical procedures.

## ORTHODONTIA

GEORGE MILLER SHARP, D.D.S. .... Professor

Junior year Orthodontia is a technical course with lectures and demonstrations. The Senior year is a review of the Junior studies with advanced lectures upon the irregularities of the teeth, local and constitutional. Each student is required to make a number of appliances upon models and practically correct cases of irregularity.

## OPERATIVE DENTISTRY, DENTAL ANATOMY AND PATHOLOGY

HENRY CLAY THOMPSON, D.D.S. .... Professor

This course embraces lectures on the special anatomy and physiology of the teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling, and extracting teeth receive attention in the lecture-room, and are demonstrated clinically by proficient operators. Extended consideration is given to Black's method of dental pathology and therapeutics. This chair has personal supervision of the department of Operative Technics and the infirmary.

## CHEMISTRY

CHARLES EDWARD MUNROE, Ph.D., LL.D. .... Professor

FRANK ADELBERT HORNADAY, S.B., M.D. .... Professor

The instruction in this subject embraces:

A short discussion of the principles of Physics in their relation to Chemistry, the principle of chemical philosophy, and the laws of chemical combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in dentistry; Organic Chemistry, with special attention to those organic compounds that are of practical use; laboratory instruction in the determination of acids and bases, analyses of alloys, etc.

## PHYSIOLOGY

JOSEPH DUERSON STOUT, A.M., M.D. .... Professor

HENRY RANDALL ELLIOTT, M.D. .... Associate

This subject is taught in lectures, recitations, and laboratory exercises. In the lectures and recitations special emphasis is placed upon those parts of physiology that have a known bearing upon dental medicine and surgery, especially digestion, secretion, and the nervous system.



Three laboratory periods a week during a semester give the student first-hand knowledge of the principal facts about the general functions of tissues, and the special functions of the nervous system, the special senses, the heart, circulation, digestion, and respiration.

## ANATOMY

CARL LAWRENCE DAVIS, M.D..... Professor  
OSCAR BENWOOD HUNTER, M.D..... Associate Professor

The instruction in Anatomy is given in a graded course of lectures, recitations from prescribed text-books, and especially by practical work in the dissection of the cadaver. The lectures are illustrated by the use of dry and wet dissections of the cadaver, by models, diagrams, charts, and stereopticon views.

Practical work in osteology and in dissection of the head are of fundamental importance. For the study of these subjects the class is divided into sections in order to make the instruction as practical as possible. The bones of the skeleton are placed in each student's hands, and he is instructed and quizzed upon all their important features.

## MATERIA MEDICA AND THERAPEUTICS

NOBLE PRICE BARNES, M.D..... Professor  
D. DEWITT BECKMAN, D.D.S..... Associate Professor  
GEORGE VON PULLINGER DAVIS, M.D..... Instructor

Instruction in these subjects embraces:

The study of crude drugs and their preparations and the art of prescribing; the physiological action of drugs in the human system; the practical application of drugs and other therapeutical agencies to the prevention and cure of diseases and the relief of suffering, together with their antidotal relation to poisons.

The subject is taught by means of lectures, recitations, and blackboard illustrations, and is made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, well equipped with modern appliances, in which are taught the making of typical preparations of the Pharmacopoeia, prescription writing, and the compounding of prescriptions.

Special attention is given to those drugs that are of most value in the practice of dentistry.

## ORAL SURGERY

CHARLES STANLEY WHITE, M.D..... Clinical Professor  
ARTHUR BARTON CRANE, D.D.S..... Professor  
EUGENE ROGER STONE, D.D.S..... Associate Professor

Instruction in this subject consists of a systematic course of lectures, followed by recitations, and clinical teaching is carried on in the Infirmary and Hospital Dispensary. Amphitheatre clinics are given in the University and other hospitals to which the members of the Faculty are attached. A free bed in the University Hospital is at the disposal of this department. Operations and demonstrations on the cadaver form a valuable part of the course.

The lectures deal with applied anatomy, surgical bacteriology and pathology, surgical technique, wounds, hemorrhage, shock, surgical diseases and injuries of the face, mouth and jaws, extraction of teeth and local and general anesthesia.

Students are expected to attend the amphitheatre clinics when notified and are required to present at least one case-history as a prerequisite to examination.

*Text-Books and Works of Reference.*—Blair, Surgery and Diseases of the Mouth and Jaws; Scudder, Tumors of the Jaws; Winters, Exodontia; Hewitt, Anesthetics.

#### HISTOLOGY

OSCAR BENWOOD HUNTER, M.D. .... Professor

The course in Histology consists in a systematic presentation of the subject of the minute anatomy of the various parts of the body, especial attention being devoted to the histology of the teeth and neighboring structures. The subject is presented partly by systematic lectures, and more especially by the practical study by the individual students of actual specimens under the microscope. The methods of preparation of microscopical specimens are presented and practiced in the laboratory. The projection microscope, affording valuable aid in illustrating and presenting the subject, is constantly used.

#### PATHOLOGY AND BACTERIOLOGY

ISABEL KATHERINE BOGAN, M.D.,

Associate Professor of Bacteriology and Pathology

THOMAS P. MILLER, M.D. ... Instructor in Bacteriology and Pathology

WILLIAM BROWNE CARR, M.D. .... Instructor in Morbid Anatomy

ARTHUR ALEXANDER EISENBERG, M.D.,

Instructor in Bacteriology and Pathology

The course begins with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an explanation of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.



The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the student required to prepare them at least once in the laboratory. This is followed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.

After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practiced by the students, after which the most important pyrogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

#### PROSTHETIC TECHNICS

WILLIAM FRANCIS LAWRENCE, D.D.S. ....	Associate Professor
JOHN WINSLOW TAYLOR, D.D.S. ....	Instructor
HENRY CISSEL YOUNG, D.D.S. ....	Instructor
CHARLES W. RICH, D.D.S. ....	Instructor
JOHN PRESTON MARSTELLER D.D.S. ....	Instructor
ORVILLE NEWTON FANSLER, D.D.S. ....	Instructor
JASPER N. ROBERTS, D.D.S. ....	Instructor

The technic laboratories are thoroughly equipped for their particular work. The course in prosthetic technics extends through the Freshman, Junior, and Senior years.

The first year is a technical and didactic course. The students are taught the proper equipment of a dental laboratory; the preparation of the mouth for dentures; methods of taking impressions of the mouth and manipulation of the various impression materials; the preparation and mounting of models; selection and artistic arrangement of teeth; the construction of plastic dentures and crowns with general details.

In the Junior class the course is a review of the Freshman year with extended technical and didactic work, embracing a practical course in taking impressions, making models, dies, and casting; swaging, rimming, attaching teeth by rubber, and in general construction of metal dentures, crown and bridge work.

The Senior year is a practical course, embracing the swaging of plates, teeth attached by soldering, clasps, porcelain work, advanced bridge work, removable bridges, and the detailed construction of all work in prosthetic dentistry.

The work of the Department is under the immediate supervision of the associate professor.

## OPERATIVE TECHNICS

CADMUS LINDEN ODOR, D.D.S.....	Associate Professor
CHARLES GARDNER SHOEMAKER, D.D.S.....	Instructor
WALTER S. HAGEN, D.D.S.....	Instructor

This subject is taught by lectures, illustrated by enlarged models and drawings, together with demonstrations of instruments and materials. The students perform exercises in manipulative procedure under the direction of the instructors.

The subjects embraced in the course consist, first, of the study of dental nomenclature, that the student may acquire an understanding of the technical terms used in the course of his dental studies. This is followed by descriptive dental anatomy, and the forms and surface markings of each tooth studied, the natural teeth, as well as enlarged models and drawings being used for the purpose. Each student is required to make various sections of the teeth for the thorough study of the pulp chambers and root canals and their relations to the external surface of the teeth.

That tooth-forms may be more perfectly impressed upon the mind of the students, each student is required to carve a tooth of the several classes, as incisor, cuspid, bicuspid, and molar, in bone or artificial ivory, representing the actual form and size of the natural organ. Cavities are classified and illustrated by drawings and models, followed by their preparation and filling in technic forms by the student. Treating and filling root canals is given full attention, the students performing operations of this kind upon natural teeth mounted for the purpose.

All work, in its relation to operative dentistry, is given the necessary consideration to fit the student for meeting, as far as possible, the actual requirements of the infirmary.

## COMPARATIVE DENTAL ANATOMY

The senior students will study in this course the food habits and the teeth of animals. The forms of teeth and their uses as weapons of offense and defense will be studied.

## CROWN AND BRIDGE WORK, GOLD INLAY, AND PORCELAIN

ALLEN SCOTT WOLFE, D.D.S.....	Associate Professor
JAMES WALTER BERNHARD, D.D.S.....	Instructor
EDWARD EARL GOLDEN, D.D.S.....	Instructor
HENRY MERLE SPILLAN, D.D.S.....	Instructor

Instruction in this course is systematically given by lectures and clinics. The course in technic extends through the Freshman, Junior, and Senior years.



Students are taught the principles and practice of inlay work, porcelain crowns, high and low fusing bodies, the use of the electric and gas furnaces.

#### METALLURGY

JOHN ROBERT DeFARGES, D.D.S. .... Associate Professor

The subject of Metallurgy taught in the chemical laboratory will be reviewed and an extended course will be given in metals, alloys, and amalgams which are used in dentistry.

#### PROFESSIONAL ETHICS, DENTAL JURISPRUDENCE, AND ECONOMICS

These lectures on ethics consist of a brief statement of the moral obligations of professional men to each other and to their patients, the duty of upholding the honor and dignity of the profession, and the differences between the profession and business or manufacturing pursuits.

The lectures on jurisprudence will follow the text-book, which fully elucidates the legal relation of the dentist to his patients, the importance of dental records, the limitations of dental practice, the liabilities incurred by those who administer anaesthetics, the penalties, etc.

*Economics.*—This course will instruct the student in the proper methods to insure a practice and to retain patients; will discuss business relations between patients and dentist, fees, book and card systems, and the general economy in conducting an office.

#### ORAL PROPHYLAXIS

GEORGE MILLER SHARP, D.D.S. .... Professor

This subject will be taught didactically, and clinically practical work by the students in the treatment of the oral cavity will be required.

#### THE DENTAL INFIRMARY

CHARLES TURK BASSETT, D.D.S. .... Associate Professor in Charge  
EUGENE ROGERS STONE, D.D.S. .... Demonstrator  
SAMUEL DANEMANN, D.D.S. .... Demonstrator

The Infirmary is open every week-day the entire year. An abundance of clinical material is readily available. In fact, as many patients present themselves as can possibly be attended to by the students. It is under the immediate supervision of the demonstrator in charge, who is present from 1 until 5 o'clock.

## CLINICAL STAFF

CAESARE LOUIS CONSTANTINI, D.D.S.....	Clinician in Charge
ARTHUR DURDAN WEAKLEY, D.D.S.....	Dentistry
THOMAS LOCKE RUST, D.D.S.....	Dentistry
GEORGE BERTRAM ROPER MACDONALD, D.D.S.....	Dentistry
WILLIAM CARL KILLINGER, D.D.S.....	Orthodontia
GEORGE MILLER SHARP, D.D.S.....	Special Crown Work
ZENAX WILBUR ALDERMAN, D.D.S.....	Electro-Therapeutics
ROBERT EDWIN LAYTON, D.D.S.....	Dentistry

## TEXT-BOOKS AND WORKS OF REFERENCE

(The works first named and in *italics* are preferred.)

*Anatomy*.—Cunningham's *Text-book of Anatomy*; Cunningham's *Manual of Practical Anatomy*; Black's *Dental Anatomy*.

*Physiology*.—Text-books: Haliburton's *Physiology*; Howell's *Physiology*; Tigerstedt's *Physiology*.

*Pathology and Bacteriology*.—Delafield and Prudden's *Pathology*; Jordan's *Bacteriology*.

*Chemistry*.—Simon's *Chemistry*; Barha's *College Chemistry*; Holland's *Medical Chemistry*.

*Materia Medica*.—H. C. Wood's *Therapeutics*; Hare's *Practical Therapeutics*; A. A. Stevens' *Modern Materia Medica and Therapeutics*; Culbreath's *Materia Medica and Pharmacy*; National Dispensatory Reference Text-books, Osborne, Wilcox, Sollmann, Shoemaker, U. S. Pharmacopoeia and National Formulary; Prinz's *Dental Materia Medica and Therapeutics*; Modern *Dental Materia Medica*; Buckley's *Therapeutics and Pharmacology*; Dorland's *Medical Dictionary*.

*Prosthetic Dentistry*.—*The American Text-Book of Prosthetic Dentistry*; Wilson's *Prosthetic Dentistry*; Essig's *Dental Metallurgy*.

*Operative Dentistry*.—Kirk's *Operative Dentistry*; Black's *Principles of Practice*; Tome's *Dental Anatomy and Surgery*; Taft's *Operative Dentistry*; Litch's *American System of Dentistry*; Johnson's *Operative Dentistry*.

*Oral Surgery*.—Blair's *Surgery and Diseases of the Mouth and Jaws*; Scudder's *Tumors of the Jaws*; White's *Exodontia*; DeWitt's *Anaesthetics*.

*Histology*.—Nichols, Bohm and Davidoff's *Histology*; Bromell's *Anatomy and Histology of the Mouth*.

*Orthodontia*.—Dewey's *Practical Orthodontia*; Angle's *Treatment of Malocclusion of the Teeth and Fractures of the Maxilla*; Talbot's *Irregularities of the Teeth*; Jackson's *Orthodontia*.

*Dental Jurisprudence*.—Rehfuss's *Dental Jurisprudence*; Noyes's *Ethics and Jurisprudence for Dentists*.

*Dental Pathology and Therapeutics*.—Burchard's *Dental Pathology and Therapeutics*.

*Comparative Dental Anatomy*.—Thompson's *Comparative Dental Anatomy*.



## GRADUATION

Candidates for graduation must have attended three full courses of lectures, each of eight months' duration, and three courses of clinical instruction in this School, during the regular winter term and in separate years. Students are examined at the end of the regular course upon all subjects taught them during that course. Should the student fail in his examination in course, he may be re-examined in the fall. All fees must be paid and Infirmary requirements complied with before the student may present himself for examination.

Students must enter before, or within ten days after, the opening lecture of the regular course. They may register at any time during the Infirmary course, and thus begin Infirmary practice at once upon payment of twenty-five dollars, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate for graduation must be examined upon all subjects taught in this School, and before the examination he must perform operations upon the natural organs in the Infirmary, and present the demonstrators in charge with a well-constructed specimen of dental mechanism made by himself in the dental laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry, and diligent attendance will be taken into consideration. Notable negligence, immorality, or habitual absence from the lectures may preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the sessions, must comply with the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

## COURSES IN ARTS AND SCIENCES

Students taking a full course for a degree may be admitted without additional fee, except laboratory fees, to courses for which they are qualified, in the Department of Arts and Sciences, the aggregate of such courses not to exceed six hours a week.

## LOCATION

The Dental Building is No. 1325 H Street N. W. It is within half a square of all lines of street cars going to every part of the city.

The Dean may be seen personally at 724 9th Street N. W., on any week day, and also at the Dental Building, 1325 H Street N. W., on Tuesday and Thursday of each week at 4.30 p.m. during the session.

## FEES AND CONTINGENT EXPENSES

1. Matriculation fee (payable once).....	\$5
2. Annual library fee.....	2
3. Tuition fee per annum, including all charges for materials....	125
4. Fee for graduation.....	10
5. Fee for a certificate under the seal of the University.....	2
6. A deposit of \$10 to cover breakage in laboratory courses and damage to the building or apparatus is required. Any unforfeited balance is returned to the student.	

No registration will be accepted for less than a full half year, and no change in the courses undertaken at the time of registration will be made unless approved by the Dean. *Withdrawals during the semester will be granted only on recommendation of the Dean and the approval of the President.*

Students are furnished microscopes at the following rates:

Microscope for histological laboratory use.....	\$5
Microscope for bacteriological, pathological, and clinical microscopy laboratory use.....	6

The cost of instruments for the first year amounts to about \$30, and the cost of text-books to about \$20.

## PAYMENT OF FEES

Matriculation, library, other special fees and laboratory deposits are due in full in advance. Tuition and laboratory material fees may be paid in eight monthly instalments in advance. Students who are unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current academic year. Fees are payable at the office of the Treasurer, 2024 G Street, or at the office of the Medical School, 1325 H Street.

## BOARD AND ROOMS

A register of boarding-houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

---

For catalogues, application blanks and further information, address  
J. ROLAND WALTON, D.D.S., *Dean*,  
724 9th Street N. W.





## PART III

### ASSOCIATED COLLEGES

NATIONAL COLLEGE OF PHARMACY

COLLEGE OF VETERINARY MEDICINE

Institutions in the District of Columbia organized as corporations under the Charter of the University, having separate financial foundations but educationally forming a part of the system of the University.





# NATIONAL COLLEGE OF PHARMACY

## OFFICERS AND TRUSTEES

### *President*

CHARLES H. STOCKTON, LL.D.

### *Dean and Chairman*

HENRY E. KALUSOWSKI

### *Vice-Chairman*

LEWIS FLEMER

### *Secretary*

WYMOND H. BRADBURY

### *Treasurer*

H. C. EASTERDAY

### *Trustees*

With date of expiration of term of office

CHARLES B. CAMPBELL, 1917	HENRY E. KALUSOWSKI, 1915
HERBERT C. EASTERDAY, 1917	WILLIAM T. KERFOOT, 1915
LEWIS FLEMER, 1917	WYMOND H. BRADBURY, 1916
WILLARD S. RICHARDSON, 1917	SAMUEL M. WAGNER, 1916
FRANK C. HENRY, 1915	CHARLES E. GROSS, 1916
SAMUEL L. HILTON, 1915	FRANK P. WELLER, 1916

## FACULTY OF THE NATIONAL COLLEGE OF PHARMACY

CHARLES HERBERT STOCKTON, LL.D... PRESIDENT OF THE UNIVERSITY

HENRY E. KALUSOWSKI, M.D., Phar.D., Dean, and Professor of Pharmacy

HENRY H. HAZEN, S.B., M.D.

Professor of Materia Medica, Botany, and Toxicology

HERBERT H. BUNZEL, A.B., Ph.D... Professor of Chemistry and Physics

HOWARD M. BRADBURY, Phar.D..... Professor of Analytical Chemistry

BURTON J. HOWARD, S.B..... Professor of Microscopy

HENRY B. FLOYD, Phar.D..... Professor of Mercantile Pharmacy

ALEXANDER MUNCASTER, Phar.D., LL.M.,

Professor of Pharmaceutical Jurisprudence

HENRY W. GEORGE, Phar. D.,

Assistant to the Professor of General Chemistry

HOMER K. BUTLER, Phar.D.,

Assistant to the Professor of Analytical Chemistry



## CALENDAR

1915

- September 16, *Thursday*—Admission Examination begins at 1 p.m.  
in the Lecture Room of the College.  
September 22, *Wednesday*—Forty-third Session begins.  
November 25, *Thursday*—Thanksgiving Day, a holiday.

Recess from December 24, 1915, to January 3, 1916

1916

- February 22, *Tuesday*—a holiday.  
May 10, *Wednesday*—Annual Examinations for promotion and  
graduation begin.  
June 7, *Wednesday*—Commencement.

## GENERAL STATEMENT

The National College of Pharmacy, which is the outgrowth of the Columbian Pharmaceutical Association, organized in April, 1871, was chartered under the provisions of an act of Congress in 1872, and opened its doors to students November 11 of that year. In February, 1906, it became a member of the educational system of The George Washington University, under the charter of the University granted by Congress March 3, 1905, providing for the organization of colleges. The President of the University is *ex-officio* president of the National College of Pharmacy, and the College is represented in the President's Council by its Dean.

The work of the College embraces courses in chemistry, botany, physiology, materia medica and toxicology, pharmacy and pharmaceutical laboratory work, analytical chemistry, microscopy, mercantile pharmacy, and pharmaceutical jurisprudence. Three years are required for the completion of the prescribed course.

The College building is centrally located on I street northwest between Eighth and Ninth streets. It is easily reached by the principal street car lines of the city.

## Preliminary Education and Examination

The College requires of its matriculants a knowledge of the branches usually taught in the public schools of Washington, D. C., to the extent of *three years in the high schools or its equivalent*, and they must be at least seventeen years of age. Evidence of this may be shown by certificates from reputable teachers or by the results of an examination to be held at the College, at one o'clock p.m., *THURSDAY*, September 16, 1915.

Beginning with the session of 1916-17, candidates will be required to have four years' high school instruction or its equivalent.

## SPECIAL COURSES

Students may select one or more of the branches taught and attend the lectures and laboratory work during the time set apart for such study.

Students taking single tickets are not entitled to take the examinations for the degree conferred by the College.

## THE DEGREE

The degree conferred is *Doctor of Pharmacy*.

## QUALIFICATIONS FOR THE DEGREE

1. The student shall have attended three courses of instruction in Chemistry, Pharmacy, Analytical Chemistry, Materia Medica, Botany, Physiology, Toxicology; and two in Microscopy, the last of which must have been in this College; and one course each in Mercantile Pharmacy and Pharmaceutical Jurisprudence.

2. He must have passed a satisfactory examination in each of the branches taught.

3. He must be recommended by the Board of Examiners.

## MATERIA MEDICA, BOTANY, PHYSIOLOGY AND TOXICOLOGY

## Freshman Course

Introduction to the study of Botany, Evolution, Properties of Living organisms, Growth of Plants, Internal Structure and Physiology of plants will receive proper attention, followed by a description of the Natural and Artificial systems of Botany.

Following will be a course of instruction in Animal Physiology, to include Body Tissues, Bone, Fibre, Cartilage, Muscle, Epithelium, Serous Tissue, Nerve Tissue, Blood and the Circulation.

## Junior Course

Causes of disease, Trauma, Poisons introduced from without, the Bacteria, Immunity.

General Principles of Therapeutics, Rules for Dosage, Standardization of Drugs, to be followed in their regular order, the study of Drugs, classified according to their general or local effects.

## Senior Course

General review of the Junior year work and continuation of the study of drugs, to include the coal tar group, toxins and anti-toxins vaccines Bacterins. Use of drugs hypodermically. This course to conclude with a special course of instruction in Toxicology.

## PHARMACY

## Freshman Course

This course is given to the study of the various pharmaceutical processes and operations. Following in the order named are lectures on



metrology, heat, thermometry, evaporation, distillation, fusion, sublimation, calcination, granulation, comminution, solution, filtration, clarification, decoloration, precipitation, crystallization, and extraction, during which the various methods used to bring about the desired results will be illustrated.

#### Junior Course

During a part of this course the time is given to the application of the processes considered during the Freshman year to pharmacopœial preparations, and such modifications as adapt them to special uses.

The latter part of this course is taken up with the study of official preparations obtained from the elementary bodies beginning with bromine, chlorine, iodine, phosphorus, and sulphur, following by carbon, boron, silicon, the inorganic acids, potassium, sodium, lithium, ammonium, magnesium, calcium, barium, zinc, aluminum, cerium, cadmium, manganese, iron, chromium, lead, silver, copper, mercury; antimony, arsenic, bismuth, and gold.

#### Senior Course

The time during this course is mainly given to the study of compounds chiefly derived from organic matter, and products obtained therefrom, amylaceous and saccharine substances; glucosides and alkaloids, volatile oils and animal products used in pharmacy, vegetable oils, soaps, and products from resins.

### ANALYTICAL CHEMISTRY

The instruction in this Department is intended to present the chemical tests of the United States Pharmacopœia, with methods for the identification of substances and for the detection of impurities; to instruct in the methods of assaying and the use of volumetric solutions, and to enable students to analyze any ordinary mixture of inorganic material.

For the purpose of carrying out the work of this Department a large, well-equipped laboratory is provided with all the usual water and gas facilities, and has recently been wired and installed with electric apparatus whereby electro-chemical methods of analysis can be taught and the application of the electric current to the preparation of chemicals by the methods of electro-chemistry can be illustrated before the students. These and other facilities afford students exceptional opportunities to become familiar with the fundamental principles of the science of chemistry.

The first year is devoted to experimental work so arranged as to supplement the lectures in General Chemistry.

The second year covers a systematic course in qualitative analysis in connection with the test of the United States Pharmacopœia.

The third year is devoted to volumetric analysis by means of the standard solutions of the Pharmacopœia.

## GENERAL CHEMISTRY AND PHYSICS

Inasmuch as the subjects of Analytical Chemistry and Pharmacy are fully provided for in other courses, these lectures are devoted more closely to the fundamental principles and classification which must underlie a thorough and systematic knowledge of Chemistry. Owing to the intimate connection existing between Chemistry and several branches of Physics, a number of lectures illustrating the more important laws and principles of some of these branches precedes the regular course in Chemistry, and others on these subjects with which a prior acquaintance is less important follow after the student has acquired some knowledge of chemical changes. During the first half of the second year Physics and the non-metallic elements receive consideration, followed during the remainder of the second and a portion of the third year by the metals. The greater portion of the third year is devoted to the exposition of the more important facts, principles, and theories of Organic Chemistry.

## MICROSCOPY

The course of Microscopy gives instruction in the use of the compound microscope as an aid in the study and identification of drugs, and requires full attendance from Junior and Senior students.

The work includes both lectures and laboratory courses, and consists in the examination of plant tissue as illustrated in various vegetable substances most familiar to pharmacists. Special attention is given to the structural characteristics by which one drug can be distinguished from another as well as to the detection and identification of the most common adulterants used.

## MERCANTILE PHARMACY AND PHARMACEUTICAL JURISPRUDENCE

Attendance upon these courses is required from the Senior class only.

## FEES

Matriculation.....	\$5
Tickets for the full year's course of instruction, Freshman .....	80
Tickets for the full year's course of instruction, Junior .....	85
Tickets for the full year's course of instruction, Senior.....	90
Single tickets for Chemistry, Materia Medica, Botany, and Toxicology, each.....	20
Single tickets for Analytical Chemistry.....	25
Single tickets for Practical Pharmacy .....	25
Single tickets for Microscopy.....	20
Single tickets for Mercantile Pharmacy.....	10
Single tickets for Pharmaceutical Jurisprudence.....	10
Fee for Diploma.....	10

For further information consult the Dean, HENRY E. KALUSOWSKI,  
808 I Street N. W.



## COLLEGE OF VETERINARY MEDICINE

### BOARD OF TRUSTEES

J. A. T. HULL	DAVID EASTBURN BUCKINGHAM, V.M.D.
H. ROZIER DULANY	JOHN LOCKWOOD, D.V.S.
WILLIAM CORCORAN EUSTIS	JOHN POLLARD TURNER, V.M.D.

### FACULTY

CHARLES HERBERT STOCKTON, LL.D..... PRESIDENT OF THE UNIVERSITY  
 DAVID EASTBURN BUCKINGHAM, V.M.D..... Dean,  
 Professor of Materia Medica, Therapeutics and Canine Practice.  
 CHARLES EDWARD MUNROE, Ph.D., LL.D..... Professor of Chemistry  
 JOHN LOCKWOOD, D.V.S..... Professor of Veterinary Surgery  
 JOHN POLLARD TURNER, V.M.D.,  
 Professor of Theory and Practice of Veterinary Medicine  
 OSCAR BENWOOD HUNTER, M.D., Professor in Histology and Embryology  
 OTIS DOW SWETT, S.M., LL.M. .... Assistant Professor of Chemistry  
 MAURICE C. HALL, S.B., A.M.,  
 Assistant Professor of Zoölogy and Parasitology  
 TUNIS HICKS, D.V.M..... Assistant Professor of Veterinary Anatomy  
 WILLIAM W. BRIDE, A.B., LL.B.. Lecturer on Veterinary Jurisprudence  
 HARRY C. CRAIG, M.D..... Instructor in Bacteriology and Pathology  
 CHAUNCEY M. GRUBB, D.V.M..... Instructor in Dairy Inspection  
 and Milk Hygiene, Dentistry and Obstetrics  
 HARRY A. LOCHBOEHLER, D.V.M.,  
 Instructor in Veterinary Materia Medica and Therapeutics  
 G. M. POTTER, D.V.M.,  
 Assistant Professor in Special Pathology, Infectious  
 Diseases and Meat Inspection  
 ARTHUR A. EISENBERG, A.B., M.D..... Instructor in Physiology  
 EDWIN H. INGERSOLL, M.S..... Instructor in Physiological Chemistry  
 JOHN JAMES ESSEX, D.V.M. .... Instructor in Horseshoeing  
 FRANK G. ASHBROOK, B.S. in Agric.,  
 Instructor in Breeds and Breeding and Judging, and Feeds and  
 Feeding  
 LOUIS V. DIETER, Phar.G..... Instructor in Pharmacy and Botany  
 CLAYTON, HARRY T., D.V.M..... Instructor in Anatomy  
 MORCOCK, JULIUS, D.V.M..... Instructor in Anatomy

### REQUIREMENTS FOR ADMISSION

Students presenting a diploma from any recognized college, normal or high school are eligible to admission without examination.

Students not having the above qualifications will be required to have at least one year of high school work or its equivalent.

### ADMISSION OF STUDENTS FROM OTHER SCHOOLS

Students of other recognized and approved veterinary schools may be admitted to this school as follows:

Those qualified to enter the second year of such a school may be admitted to the second-year class of this school, those qualified to enter the third year of their own school to the third year of this school; provided, however, that the subjects pursued by the applicants in their previous year or years are reasonably equivalent to those required in the same year or years in this school, and that the requirements for advancement from class to class are the equivalent of those in this school. Applicants may be required to submit to examination in all the subjects pursued by the previous class of this school.

### EVIDENCE OF ATTENDANCE

At the end of the college year each student is entitled to a written statement giving the length of time spent in each study during the session and the grade received therein. This statement, or definite evidence of credit, shall be exacted from a student before he is given advanced standing in any veterinary college.

### ADVANCED STANDING

Advanced standing will be given for degrees in Medicine, Dentistry, or Veterinary Medicine.

Students holding degrees in Arts, Science, Philosophy, or Agriculture who in the course of study for their degrees have pursued studies in chemistry, physiology, anatomy, histology, bacteriology, or pathology, equivalent to the courses in these subjects in this college, may upon satisfactory evidence of their proficiency be credited with such studies; provided, however, that such students shall devote two years' study in veterinary medicine, the last year of which is passed in this College.

### SPECIAL STUDENTS

Students, approved by the Dean, not candidates for the degree of Doctor of Veterinary Medicine, may be admitted without examination to pursue any course they may elect. Such courses cannot, however, be subsequently considered as time spent in the course for the degree



of Doctor of Veterinary Medicine. Nor can such students enter upon the regular veterinary course without complying with all the regular requirements for admission.

#### CLASSIFICATION OF STUDENTS

Students are divided into four classes, according to their proficiency and the time spent, viz., first, second, third and fourth year. Students cannot advance to a higher class with more than one major and one minor condition. Students failing in any subject or subjects may be permitted at the next examination period a re-examination in the subjects in which they fail. The Faculty may dismiss any student from the College, if in its judgment such student be deemed an unsuitable person, intellectually or otherwise, for the profession of veterinary medicine.

#### ORDER OF INSTRUCTION

The subjects studied in each year are shown in the following table:

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Anatomy	Anatomy	Theory and	Theory and
Histology	Physiological	Practice	Practice
Embryology	Chemistry	Bacteriology	Small Animal
Chemistry and	Pharmacy	Pathology and	Practice
Physics	Physiology	Laboratory	Surgery and
Laboratory	Hygiene	Diagnosis	Restraint
Chemistry	Breeds and	Surgery and	Therapeutics
Materia Medica	Breeding and	Restraint	Obstetrics
and Toxicology	Judging	Dentistry	Veterinary
Botany	Dairy Inspection	Soundness and	Jurisprudence
Zoology	and Milk	Lameness	
	Hygiene	Clinics	Parasitology
	Feeds and Feed-		Control of
	ing		Infective
	Clinics		Diseases
	Shoeing and		Meat Inspection and P.
	Balancing		M. Examination
			Clinics

For lecture, laboratory and dissecting hours a schedule card is furnished.

Clinical work in the veterinary and canine hospitals connected with the College and at abattoirs and stock and dairy farms is required of second, third and fourth year students.

## ANATOMY

TUNIS HICKS, D.V.M.....	Assistant Professor
HARRY THOMAS CLAYTON, D.V.M.....	Instructor
JULIUS MORCOCK, D.V.M.....	Instructor

The instruction in Anatomy is given in a series of lectures, demonstrations, recitations, and laboratory work, the latter being the most important.

The lectures are intended to present the general anatomical features of the horse and other domestic animals, and to point out the anatomical relations of the organs and parts of the body most subject to surgical operations.

The horse is used as the type subject in dissection, and every student is required to dissect all the parts of the horse, and such other of the domesticated animals, including the ox, sheep, swine, dog and cat, as may prove most expedient.

The laboratory is well supplied with all of the parts of the skeleton of the horse, and portions of the skeleton of various other domestic animals, for the work in osteology. Ample material is always available for the dissection of joints, muscles, viscera, and the vascular and nervous systems. The laboratory is also provided with a complete model of the horse, showing the relation of all the organs and parts of the body, for demonstrations in general and surgical anatomy. The course extends throughout the first and second years.

*Text-book.*—Sisson's Veterinary Anatomy.

## HISTOLOGY AND EMBRYOLOGY

OSCAR BENWOOD HUNTER, M.D.....	Professor
--------------------------------	-----------

These subjects are taught by a series of carefully correlated lectures, recitations, quizzes and demonstrations, and will include such instruction in microscopy as a working knowledge of the use of the simple and compound microscope and accessories, supplemented by the fundamental laws of optics; the method of preparing tissues for microscopic examination, and the technique of mounting.

Comparative histology will deal with the minute structure of the tissues and organs of various animals, including man. In addition to the microscopical demonstrations, lantern demonstrations will also be given.

Embryology under this head will present the salient features of the anatomy and physiology of the fecundated ovule up to the time of birth.

*Text-book.*—Bohm, Davidoff and Huber's Histology.

## PHYSIOLOGY

ARTHUR A. EISENBERG, A.B., M.D.....	Instructor
-------------------------------------	------------



The course in Physiology consists of lectures, demonstrations and laboratory exercises. The lectures cover all the important facts and theories regarding bodily functions of the animal, and are illustrated by diagrams, models and prepared specimens.

In the laboratory each student performs a number of experiments on blood, on the circulation, on digestion, on the general functions of nerves and muscles, and on the special senses of animals.

Special emphasis is laid on the relation of normal physiological functions to the disturbances of function in disease and upon the physiological action of drugs.

It is intended in this way to bring the work of the Physiological Laboratory and other exercises into closer relation with the succeeding course in Pathology, Therapeutics and General Veterinary Medicine.

*Text-book.*—Howell's Physiology, Smith's Veterinary Physiology.

#### GENERAL CHEMISTRY

##### First Year

CHARLES EDWARD MUNROE, Ph.D., LL.D.....Professor  
OTIS DOW SWETT, S.M.....Assistant Professor

*General Chemistry.*—A series of illustrated lectures, accompanied by recitations and exercises on theoretical, inorganic, organic and technical Chemistry. The student is required to take notes on these lectures, which he must submit for examination.

*Laboratory Practice.*—A laboratory course for the study of the principles of chemistry which is designed to instruct students in the methods of conducting chemical experiments.

*Text-book.*—Holland's Medical Chemistry and Toxicology.

#### PHYSIOLOGICAL CHEMISTRY

##### Second Year

EDWIN HENRY INGERSOLL, M.S.....Instructor

This course will consist of lectures and laboratory instruction, and includes the study of water from a sanitary standpoint; the chemical examination of milk, the tissues and fluids of the body; the isolation of the digestive enzymes, and a study of their action in vitro.

#### MATERIA MEDICA AND THERAPEUTICS

DAVID EASTBURN BUCKINGHAM, V.M.D.....Professor  
HARRY A. LOCHBOEHLER, D.V.M.....Instructor

##### First Year

(1) Lectures upon and demonstrations of drugs and their preparations and doses used in veterinary practice will be followed by recitations to assist in memorizing. (2) Practical exercises will be given in prescription writing, also a short course in Veterinary Pharmacology.

## Fourth Year

(1) Systematic lectures upon the physiological action of drugs and their effects in disease, their therapeutic uses, and their methods of administration to animals. (2) Prescription writing, in which students are given hypothetical cases for which to prescribe. (3) The therapeutic application of various agencies not drugs.

*Text-book.*—Winslow's Veterinary Materia Medica and Therapeutics.

## PRACTICE OF VETERINARY MEDICINE

JOHN POLLARD TURNER, V.M.D.....Professor

This subject is taught by a series of lectures, recitations, quizzes and clinics extending over a period of two years.

The student is personally drilled in all the various diseases and doctrines taught in a well regulated veterinary school.

Especial attention is given to practical work whereby the student can become proficient in the diagnosis and treatment of disease.

Visits are required to the three veterinary hospitals in connection with the University, and personal attention is given students in visits to various large stables in and adjacent to the city of Washington, where practical instruction is given the third and fourth year classes in physical diagnosis among horses, cows and hogs.

Equal attention is given diseases of cattle as of horses, whereby the student is properly fitted for either city or country practice.

Diseases of food-producing animals will be thoroughly explained.

*Text-books.*—Freidberger and Froehner's Pathology and Therapeutics of Domestic Animals; Hutya and Marek Special Pathology and Therapeutics of Domestic Animals; Malkmus' Clinical Diagnosis; Glass' translation of Muller's Diseases of the Dog.

## VETERINARY SURGERY AND RESTRAINT

JOHN LOCKWOOD, D.V.S.....Professor

The instruction given in this course embraces systematic lectures upon the principles and practice of Veterinary Surgery.

The different surgical operations are illustrated in clinic and upon the cadaver, and the uses of all the important surgical instruments and appliances are demonstrated in the same manner. The use of anesthetics, the practice of dental surgery, and castration on all domestic animals will receive special attention.

*Text-books.*—Moeller's Operative Veterinary Surgery; Fleming's Operative Veterinary Surgery; Hobday's Canine and Feline Surgery; Williams, Principles and Practice of Veterinary Surgery; Pfeiffer and Williams' Surgical Operations; White's Restraint of Domestic Animals; Merillat's Surgery.



## BACTERIOLOGY AND PATHOLOGY

JAMES ROBERT SCOTT, M.D.....Instructor

*Bacteriology.*—This subject comprises laboratory instruction in the fundamental principles and methods of pure bacteriology. Thorough drilling is given in the preparation of culture media, in disinfection, sterilization, staining and the general methods of bacterial differentiation. Following this course, which is given daily during October, the further study of bacteria is taken up in connection with and as applied to pathology.

*Pathology* comprises the laboratory study of the general and special phenomena of inflammation, and a detailed study of the pathological processes found in the various diseases. The relation of bacterial and other microphytic life to disease processes and results is studied coincidentally and constitutes a course in applied bacteriology. In connection with the laboratory work a course of lectures and demonstrations is given upon immunity, serum therapy and protective inoculation.

*Surgical Pathology.*—A special course in the healing of wounds and injuries and in the pathology of surgical operations is given in the third and fourth years.

*Clinical Microscopy.*—Comprising the study of the various tissues, fluids, ejecta, and dejecta, with a view to diagnosis of diseased conditions, is given in the first part of the third year.

*Text-book.*—Delafield and Prudden's *Pathology*, Hiss and Zinsser's *Text-book on Bacteriology*.

## SPECIAL PATHOLOGY, TREATMENT AND CONTROL OF INFECTIOUS DISEASES

G. M. POTTER, D.V.M.....Assistant Professor

The lectures in this course will be given with reference to the etiology, pathogenesis, symptoms, diagnosis, treatment and prevention of the infectious diseases. Local and national regulations and measures governing the control and eradication of diseases, with particular reference to the work of the United States Government in the eradication of infectious diseases will be clearly explained.

*Text-books.*—Hutyra and Marek, *Special Pathology and Therapeutics of Domestic Animals*, Volume I, translated by Mohler, Eichhorn and Fisher; Moore's *The Pathology of Infectious Diseases of Animals*; James Laws's *Veterinary Medicine*, Volume IV, third revised edition.

## BREEDS AND BREEDING AND JUDGING

FRANK G. ASHBROOK, B.S. in Agric.....Instructor

The course covers the chief phases of live-stock work, including the judging, breeding and management of horses, cattle, sheep and swine.

It is introduced by discussions upon the origin of animal life, natural selections, the origin of breeds and the domestication of animals, as well as the principles of breeding, heredity, environment, selection, individual conformation and the history and development of breeds.

Students obtain practical experience in the judging of the various breeds and classes of animals, by visits to neighboring farms.

*Text-books.*—Plumb's Types and Breeds of Farm Animals; Goubaux and Barrier's Exterior of the Horse.

#### FEEDS AND FEEDING

FRANK G. ASHBROOK, B.S. in Agric.....Instructor

This course will cover the principles of animal nutrition, balanced rations, practical feeding and the economical production of beef, milk, mutton and pork.

*Text-book.*—Henry's Feeds and Feeding.

#### MILK HYGIENE AND DAIRY INSPECTION

CHAUNCEY M. GRUBB, D.V.M.....Instructor.

The course in Milk hygiene will be given by lectures and demonstrations throughout the second year. The students will be taught the theory of milk secretion, the composition and characteristics of milk, the various methods of testing, together with the chemistry and bacteriology of milk, abnormal forms of milk, and diseases transmissible through milk to bovines and human beings, with a study of the epidemics produced. Sanitary stabling and the sanitary handling of milk will be considered, showing the construction of various types of dairy barns and dairy houses, the manner of milking, care of the milk and the varieties and care of dairy utensils; also the study of sterilization and pasteurization.

*Text-books.*—Jensen's Milk Hygiene, translated by Pearson. Bulletin No. 56, Marine-Hospital Service, Milk and its Relation to the Public Health.

#### MEAT INSPECTION AND POST-MORTEM EXAMINATION

G. M. POTTER, D.V.M.....Assistant Professor

The subject involves the control of food animals destined for slaughter; their ante-mortem and post-mortem inspection with reference to the diseases which affect the wholesomeness of the meat. Further, the preparation of meat-food products, the various methods of preservation of meat and the conditions to which the meat and meat products are



subject due to the different infections and contaminations. The application of the Regulations of the Department of Agriculture in connection with the judgment of carcasses, meats and meat-food products.

Practical demonstrations in meat inspection and judgment will be given at the local abattoirs.

Post-mortem examinations and demonstrations of morbid anatomy will be given, as opportunities arise, in the various hospital and ambulatory clinics in and about Washington, D. C. Special consideration will be given to discussion of gross pathological changes, procedure of technic, preparation of pathological specimens for museum purposes and methods of securing and forwarding material for diagnosis. Students will be required to write complete protocols of each case.

*Text-book.*—Mohler and Eichhorn's translation of Edelmann's *Meat Hygiene*, second revised edition.

#### ZOOLOGY AND PARASITOLOGY

MAURICE C. HALL, A.B., A.M.....Assistant Professor

*Zoology.*—In this course a brief survey of the general principles of zoology is undertaken. The history of zoology, the classification of the animal kingdom, the structure of typical forms in the different Phyla and the distribution of animals on the face of the earth will be considered. The course is designed to familiarize the student with the main facts and theories of zoology.

*Parasitology.*—This course is designed to give the student a practical knowledge of animal parasites. The nature of parasitism, the classification of parasites and the structure and life histories of those parasites of importance from the standpoint of meat inspection and veterinary practice are considered. By the use of fresh and preserved materials the student is given a first-hand knowledge of the more important parasites. Due consideration is given to the diseases caused by animal parasites, their prophylaxis, treatment and eradication.

#### VETERINARY OBSTETRICS

CHAUNCEY M. GRUBB, D.V.M.....Instructor

The course of instruction will consist of lectures on obstetrical anatomy, foetal development, presentations and the diseases incidental to the periods of gestation and parturition.

The lectures will be illustrated by diagrams, models, natural preparations, and other appliances for demonstrating the principles taught.

*Text-book.*—Fleming, Dalrymple, Williams.

#### SHOEING AND BALANCING

JOHN JAMES ESSEX, D.V.M.....Instructor

The course is intended to familiarize students with the principles of shoeing, the examination of the feet and proper use of special shoes for relief of defects or disease.

*Text-book.*—Lungwitz on Horseshoeing, Adams' translation.

#### DENTISTRY

CHAUNCEY M. GRUBB, D.V.M.....Instructor

The course in dentistry includes lectures on the development of the teeth of the domesticated animals, the determination of age, irregularities of the teeth, oral surgery and dental clinics.

*Text-book.*—Merillats' Animal Dentistry and Diseases of the Mouth.

#### BOTANY

LOUIS V. DIETER, Phar. D.....Instructor

The course in botany embraces the general relation of plants, vegetative organs, their functions, reproductive organs and nutrition.

Ecological factors, diversity of plant life, evolution of sex, differentiation of tissues, and plant physiology will be fully considered.

#### PHARMACY

LOUIS V. DIETER, Phar. D.....Instructor

Pharmacy includes the history and nomenclature of the U. S. Pharmacopoeia, metrology, metric system and common system of weights and measures. Principles employed in making various preparations, classification of official preparations, incompatibility.

Supplemented by laboratory work in which students are required to compound formulae of ointments, lotions, draughts and various preparations, official and extemporaneous.

#### MILITARY PRACTICE

J. R. HAYNES, D.V.M.,  
Clinical Instructor in Veterinary Military Practice  
(U. S. Army, Fort Myer, Va.)

This course consists of lectures and demonstrations of purely military veterinary subjects, and is given at Fort Myer, Va., the cavalry and artillery post near Washington, D. C.

The subjects of saddling, biting and draft, together with the study of the proper conformation of animals used for military purposes, are included in this set of lectures.

The control of epizootics in military life is also given special consideration.

#### VETERINARY JURISPRUDENCE

WILLIAM W. BRIDE, A.M., LL.B.....Lecturer



A series of lectures upon the Law of Animals, including suggestions relating to the conduct of veterinarians as experts in the trial of cases involving the above law.

#### SPECIAL LECTURES

In addition to the foregoing courses of lectures, a number of government experts have been engaged to give lectures on subjects of special interest to the veterinarian.

These men are specialists in their lines of scientific research.

#### EXAMINATIONS AND DEGREE

Examinations are held at the end of the course in each subject. Students failing in examinations will be permitted to be re-examined at the next regular examination period. Students will not be admitted to examination unless they have paid all fees due at the time or present a permit signed by the Dean. In order to avail themselves of the privilege of re-examination, students must file their written applications with the Dean not later than fifteen days before the date set for the examinations.

Proficiency is marked upon a scale of 100. A grade of 70 is required to pass an examination. Students who fail to appear at the regular examination period will be charged a fee of \$3 for a special examination in each subject.

If a satisfactory examination is passed, the student receives the Degree of Doctor of Veterinary Medicine (D.V.M.)

#### PRIZES

1. Prize for student attaining highest average for whole course.
2. Prize for best work in operative surgery for senior student.
3. Prize for best anatomical specimen prepared by a Sophomore student.
4. Prize for best anatomical specimen prepared by a Freshman student.

In addition to the foregoing, students attaining a general average of 90 per cent or over for the entire course will be graduated "With Distinction," the same to be inscribed upon their diploma.

#### THE VETERINARY LIBRARY

This library is located in the Administration Building of the College of Veterinary Medicine, and is open from 8 a.m. to 10 p.m.

It contains, in addition to volumes on veterinary medical subjects, the current veterinary journals.

Provision is made in the annual library fee charged every student to add to it as published, the important new works on veterinary medicine.

## OTHER LIBRARIES

Washington contains the Library of the Surgeon-General's Office of the United States Army, the most complete medical library in the world. This library, as all other libraries of the government, is open to the public between the hours of 9 a.m. and 4.30 p.m. There is also the Library of Congress and the many excellent libraries of the various other government offices, in addition to the University Medical Library.

## FEES AND CONTINGENT EXPENSES

1. Matriculation fee (payable only on first entry into the University) .....	\$5
2. Library fee per annum.....	2
3. Tuition fee per annum.....	100
4. Fee for graduation.....	10

A deposit of \$5 per annum is required of every student to cover loss, breakage or damage to the property of the school. The amount of such deposit paid in excess of the breakage will be returned.

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter-session, when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Registrar, and will be received only at the end of a quarter-session.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rates:

Microscope for Histological Laboratory use.....	\$5
Microscope for Bacteriological, Pathological and Clinical	
Microscopy Laboratory use.....	6

## PAYMENT OF FEES

All fees are to be paid to the clerk. Tuition fees are payable quarterly, in advance. Matriculation, library and laboratory fees are payable in full, in advance.

## STUDENT EMPLOYMENT

The College of Veterinary Medicine will aid students, especially those coming from a distance, to obtain suitable employment as a means of defraying a part or all of their expenses while in pursuit of their college course. Opportunities for such employment in Washington are exceptionally good. The many Departments of Government, the Library of Congress, Congressmen's secretaryships, law offices, contractors' and



architects' offices, journalism, stenography, etc., offer a large number of positions of the most diverse kinds. While the College must not be understood as in any sense engaging to find employment for prospective students, in a great many cases important assistance can be rendered duly qualified applicants, if the fact of their desire to obtain employment is known. Applicants are particularly cautioned against coming to the University, intending to depend upon outside employment for support without being provided with funds sufficient to meet the expenses of at least the first half-year. Communications should be addressed to

THE DEAN,  
*College of Veterinary Medicine,  
The George Washington University,  
2113-2115 Fourteenth St. N.W., Washington, D.C.*

#### BOARD AND ROOMS

A register of approved boarding-houses is kept by the clerk. Accommodations cost from \$20 to \$40 a month.

For further information apply to

DAVID E. BUCKINGHAM, Dean  
The George Washington University  
College of Veterinary Medicine  
Nos. 2113-2115 Fourteenth St., N. W. Washington, D. C.

## PART IV

### STUDENTS IN THE UNIVERSITY

Names of students who have withdrawn or graduated are indicated by stars:  
those who have entered since February 1, 1915, by daggers.

### DEGREES CONFERRED, MISCELLANEA





## DEPARTMENT OF ARTS AND SCIENCES

In the enumeration of undergraduate students the column of figures indicates the number of hours of work taken by the student prior to the beginning of the current academic year, 1914-15, and completed without conditions, or credited on advanced standing in candidacy for a degree. In Columbian College 60 credits are required for graduation; in Teachers College, 62; in the College of Engineering, 70.

### SCHOOL OF GRADUATE STUDIES

#### IN ATTENDANCE

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
*Balls, Arnold Kent S.B., 1912, University of Pennsylvania <i>Topic</i> —Bacteriology	Pa.	Y.M.C.A.
Bortman, Isaac Maurice B.S. in Chem., 1913, George Washington University <i>Topic</i> —Biochemistry	Pa.	4907 14th Street
*Boyd, William Edington Ph.B., 1907, University of Chicago <i>Topic</i> —Chemistry	Ill.	702 19th Street
*Harrington, George Leavitt E.M., 1912, University of Minnesota <i>Topic</i> —Geology	Minn.	Apt. 31, 15th and O Streets
Meyers, Cyril Hope B.S. in E.E., 1913, University of Minnesota <i>Topics</i> —Physics and German	Ore.	729 20th Street
Munroe, Russell Barker B.S. in E.E., 1911, University of Pennsylvania; E.E., 1912, George Washington University	Utah	2115 S Street

#### DOCTOR OF CIVIL LAW

Miller, Clarence Alphonso L.L.B., 1899, Kansas City School of Law; LL.M., 1905, M. Dip., 1906, George Washington University	Mexico	American Consulate, Tampico, Mexico, C/o State Department
--	--------	---



## CIVIL ENGINEER

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Barber, Charles Wightman	D. C.	3428 Brown Street
*Kuehn, Herman August	Ind.	411 P Street
McCormick, John Dominic B.S. in C.E., 1914, George Washington University	D. C.	1377 North Carolina Ave.
Middleton, Herbert Paul B.S. in C.E., 1914, George Washington University	N. Y.	915 20th Street
Slarrow, Malcolm Gordon B.S. in C.E., 1913, George ington University	D. C.	1308 13th Street
Wharton, Roger Daniel	D. C.	3411 Oakwood Terrace

## ELECTRICAL ENGINEER

Hamblin, Clyde Malcolm S.B., 1904, Oklahoma Agri- cultural and Mechanical College	D. C.	1104 Fairmont Street
McCalip, Curtis Edgar B.S. in E.E., 1912, George Washington University	Md.	806 East Preston Street Baltimore, Md.
Safford, Howard Palmer B.S. in E.E., 1912, George Washington University	D. C.	1933 Park Road
Walen, Ernest Dean B.T.E., 1914, Lowell Textile School	Mass.	1437 Belmont Street

## MECHANICAL ENGINEER

Johnson, Arthur Frederick Graduate, 1911, Webb Acad- emy	D. C.	2224 F Street
Whittle, George Valentine Graduate, 1914, Webb Acad- emy	N. Y.	1810 9th Street

## MASTER OF SCIENCE

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Almy, Lloyd Huber S.B., 1909, University of Illinois <i>Topics</i> —Major, Chemistry; Minors, Biochemistry, Bacteriology	Ill.	1833 Chestnut Street, Philadelphia, Pa.
Artaud, Theodore Prospère S.B., 1895, Rock Hill College <i>Topics</i> —Major, Economics; Minors, Economics, Engineering	N. Y.	The Burlington
*Bearce, Ira Mellen S.B., 1904, University of Maine <i>Topics</i> —Major, Chemistry; Minors, Physics, Education	Maine	Business High School
*Bradley, Willis Winter, Jr. Graduate, 1906, United States Naval Academy <i>Topics</i> —Major, Chemistry; Minors, Mathematics, Physics	N. Y.	Navy Department
Burden, Katherine A.B., 1914, George Washington University <i>Topics</i> —Major, Zoology; Minors, Zoology, Philosophy	D. C.	1237 Crittenden Street, Piney Branch Park, D. C.
Craighead, Frank Cooper S. B., 1912, Pennsylvania State College <i>Topics</i> —Major, Zoology; Minors, Zoology, Botany	Pa.	926 B Street, S.W.
*Crawford, James Chamberlain <i>Topics</i> —Major, Zoology; Minors, Zoology, Botany	Neb.	U. S. National Museum
Creighton, Catherine A.B., 1914, Bryn Mawr College <i>Topics</i> —Major, Chemistry; Minors, Zoology, Bacteriology	Ill.	2125 Bancroft Place



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Dennis, Showell Coulbourn B.S. in Chem., 1912, Mary- land Agricultural College <i>Topics</i> —Major, Bacteriology; Minors, Pathology, Bio- chemistry	Md.	College Park, Md.
Dodge, Cleon Orestes S.B., 1905, New Hampshire College <i>Topics</i> —Major, Chemistry; Minors, Bacteriology, Mi- croscopy	N. H.	Dept. of Agriculture, Bureau of Chemistry
Eisenberg, Arthur Alexander A.B., 1910; M.D., 1911, George Washington University <i>Topics</i> —Major, Preventive Medicine; Minors, Bacte- riology, Pathology	D. C.	1416 Columbia Street
Evans, Morgan William B.S.A., 1906, Cornell Univer- sity <i>Topics</i> —Major, Botany; Min- ors, Zoology, Chemistry	Ohio	Office of Forage Plant Investigations, B.P.I., Dept. of Agriculture
*Gardiner, Robert Franklin S.B., 1908, Rhode Island State College <i>Topics</i> —Major, Microscopy; Minors, Bacteriology, Geol- ogy	R. I.	1223 Irving Street
*Graham, James Jesse Thomas S.B., 1906, Maryland Agri- cultural College <i>Topics</i> —Major, Chemistry; Minors, Bacteriology, Chemistry	Md.	Hyattsville, Md.
*Hasenfratz, William S.B., 1913, College of the City of New York <i>Topics</i> —Major, Chemistry; Minors, Bacteriology, Bio- chemistry	N. Y.	1501 11th Street

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Hornaday, Francis Adelbert S.B., 1907, M.D., 1910, George Washington University <i>Topics</i> —Major, Chemistry; Minors, Chemistry, Path- ology	D. C.	3509 14th Street
John, Otto Marion A.B., 1908, Union College <i>Topics</i> —Major, Chemistry; Minors, Physics, Physiolo- gy	D. C.	C/o College, Takoma Park, D. C.
Johnson, Maxwell Oscar B.S. in Chem. Eng., 1913, Purdue University <i>Topics</i> —Major, Biochemis- try; Minors, Chemistry, Geology	Ind.	1736 G Street
Little, Arlington Pearl S.B., 1901, E.E., 1904, Uni- versity of Vermont <i>Topics</i> —Major, Engineering; Minors, Education, Engi- neering	Okla.	1741 Lanier Place
Moore, Milton Donaldson A.B., 1913, George Washing- ton University <i>Topics</i> —Major, Zoology; Minors, Zoology, Botany	S. C.	Dept. of Agriculture Office of Experiment Stations
*Northrup, John DeWolf S.B., 1910, Syracuse Univer- sity <i>Topics</i> —Major, Geology; Minors, Chemistry, Min- eralogy	N. Y.	4519 Georgia Avenue
Oberholser, Harry Church A.B., 1914, George Washing- ton University <i>Topics</i> —Major, Zoology; Minors, Zoology, Botany	N. Y.	1444 Fairmont Street



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Outwater (Mrs.), Kate Sorrell A.B., 1913, George Washing- ton University <i>Topics</i> —Major, Zoology; Minors, Zoology, Botany	Va.	620 F Street, S.W.
Piper, Homer Allen B.S. in Chem., 1914, Univer- sity of Wisconsin <i>Topics</i> —Major, Chemistry; Minors, Chemistry, Bac- teriology	Wis.	2017 19th Street
Radcliffe, Lewis A.B., 1905, Cornell Univer- sity <i>Topics</i> —Major, Zoology; Minors, Zoology, Bacteri- ology	N. Y.	633 A Street, N.E.
Robinson, William Kean B.S. in Chem., 1913, Mary- land Agricultural College <i>Topics</i> —Major, Bacteriology; Minors, Biochemistry, Pathology	Va.	No. 32, Brunswick Apt.
Roeser, Harry Mance S.B., 1914, Oklahoma Agri- cultural and Mechanical College <i>Topics</i> —Major, Physics; Minors, Electrical Engi- neering, Mathematics	Ill.	609 Q Street
*Sherwood, Alexander McFayden B.S. in Chem., 1910, Buck- nell University <i>Topics</i> —Major, Bacteriology; Minors, Biochemistry, Path- ology	Pa.	Box 35, Alexandria, Va.
Smith, Delos Hamilton B.S. in Arch., 1906, George Washington University <i>Topics</i> —Major, History of Art; Minors, Architecture, Archaeology	D. C.	Southern Building

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Wetmore, (Frank) Alexander A.B., 1912, University of Kansas <i>Topics</i> —Major, Zoology; Minors, Zoology, Paleon- tology	D. C.	1495 Newton Street, Apt. 35.
Williams, Richard Calvert S.B., 1914, Maryland Agri- cultural College <i>Topics</i> —Major, Bacteriol- ogy; Minors, Biochemistry, Chemistry	Md.	1332 13th Street
MASTER OF ARTS		
Bayly, Margaret <i>Topics</i> —Major, English; Minors, English, History of Art	D. C.	1333 11th Street
*Botkin, Alice Sinclair A.B., 1908, George Washing- ton University <i>Topics</i> —Major, English, Minors, French, English	Mont.	The Cairo
Bready, Marcia A.B., 1905, Bryn Mawr Col- lege <i>Topics</i> —Major, History; Minors, History, English	N. Y.	National Cathedral School
*Carter, Francis Edward A.B., 1913, George Washing- ton University <i>Topics</i> —Major, History; Minors, History, Political Science	Va.	Episcopal High School, Alexandria, Va.
Cash, Edith Katherine A.B., 1912, George Washing- ton University <i>Topics</i> —Major, French; Mi- nors, French, English	D. C.	126 Tennessee Ave.
Catella, Samuel Spinoza <i>Topics</i> —Major, Economics; Minors, Political Science, Education	Holland	2112 G Street



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Cheney, Edith A.B., 1914, George Washing- ton University <i>Topics</i> —M a j o r, Latin; Minors, Archaeology, Ger- man	D. C.	818 Taylor Street
Foster, Esther A.B., 1910, George Washing- ton University <i>Topics</i> —M a j o r, English, Minors, English, Educa- tion	D. C.	119 W Street
Garber, John Absalom A.B., 1891, Bridgewater Col- lege <i>Topics</i> —Major, Education; Minors, Psychology, Phi- losophy	D. C.	508 B Street, S.E.
John, Walton Colcord A.B., 1914, George Washing- ton University <i>Topics</i> —Major, Education; Minors, Psychology, Phi- losophy	Md.	127 Carroll Ave., Takoma Park, D. C.
Magnusson, Leifur A.B., 1905, University of Minnesota <i>Topics</i> —Major, Economics; Minors, Sociology, History	Minn.	2000 H Street
Marshall, William Clarkson, Jr. A.B., 1907, University of Vir- ginia <i>Topics</i> —Major, Philosophy; Minors, English, Zoology	Va.	Theological Seminary, Va.
Maxson, Louis Archer A.B., 1913, George Washing- ton University <i>Topics</i> —Major, Mathemat- ics; Minors, Education, Chemistry	Md.	514 C Street, N. E.
†* Monk, Ella May A.B., 1913, George Washing- ton University <i>Topics</i> —Major, English; Minors, History, Sociology	D. C.	1423 Harvard Street

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
† Muerman, John Charles A.B., 1910, Washington State College <i>Topics</i> —Major, Education; Minors, Romance Lan- guages and Literature, History	D. C.	1628 Columbia Road
Ossire, Cora Amelia A.B., 1913, George Washing- ton University <i>Topics</i> —Major, English; Minors, Education, French	D. C.	2729 Ontario Road
Resser, Charles Elmer B.Pd., 1912, Millersville State Normal School; A.B., 1913, Franklin and Marshall College <i>Topics</i> —Major, Geology; Mi- nors, Geology, Zoology	D. C.	425 Manor Place
Schwartz, Claus Johann A.B., 1908, George Washing- ton University <i>Topics</i> —Major, German; Mi- nors, French, Education	Germany	3526 11th Street
Shen, Tsou-Chen A.B., 1909, St. John's Col- lege, Shanghai, China <i>Topics</i> —Major, Internation- al Law and Diplomacy; Minors, Political Science, Economics	China	2006 Columbia Road
Underwood, Harriet A.B. 1913, George Washing- ton University <i>Topics</i> —Major, Education; Minors, History, English	D. C.	2551 37th Street
*White, Mary Josephine A.B., 1913, George Washing- ton University <i>Topics</i> —Major, English; Mi- nors, German, History	Md.	St. Timothy's School, Catonsville, Md.



## DOCTOR OF PHILOSOPHY

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Alden, Levi Russell A.B., 1903, A.M., 1904, LL.B., 1906, George Washington University <i>Topics</i> —Major, History; Mi- nors, Law, History	D. C.	809 L Street
Bevard, Katherine Harper A.B., 1911, A.M., 1913, George Washington Uni- versity <i>Topics</i> —Major, Education; Minors, Education, Eng- lish	Pa.	1423 R Street
Brigham, Gertrude Richardson A.B., 1913, A.M., 1914, George Washington Uni- versity <i>Topics</i> —Major, English; Mi- nors, Archaeology, History	Mass.	Smithsonian Institution
Clothier, Robert Waitman S.B., 1897, S.M., 1899, Kan- sas State Agricultural Col- lege <i>Topics</i> —Major, Economics; Minors, Geology, Educa- tion	D. C.	1722 Euclid Street
Connor, Louis George S.B., 1910, S.M., 1913, Wes- leyan University; M.S.A., 1912, Cornell University <i>Topics</i> —Major, History; Mi- nors, Economics	N. Y.	3415 Oakwood Terrace
Custis, Horace Hatch A.B., 1906, Johns Hopkins University; A.M., 1908, George Washington Uni- versity <i>Topics</i> —Major, Chemistry; Minors, Chemistry, Bac- teriology	D. C.	The Iroquois

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Doyle, Aida Mary S.B., 1898, S.M., 1899, George Washington University <i>Topics</i> —Major, Chemistry; Minors, Chemistry, Mi- croscopy	Pa.	3153 Mt. Pleasant Street
Gray, John Clifford A.B., 1908, Harvard Univer- sity; A.M., 1913, Dart- mouth College <i>Topics</i> —Major, Chemistry; Minors, Chemistry, Bacte- riology	Md.	College Green, Annapolis, Md.
Gronberger, Sven Magnus Graduate, 1884, Gymnasium, Norrkoping, Sweden <i>Topics</i> —Major, Zoology; Mi- nors, Zoology, Geology	N. Y.	1904 G Street
*Hall, Maurice Crowther S.B., 1905, Colorado College; A.M., 1906, University of Nebraska <i>Topics</i> —Major, Zoology; Mi- nors, Zoology, Pathology	D. C.	1815 Hamlin Street, N.E.
Huddle, John Thomas A.B., 1891, A.M., 1896, Roa- noke College <i>Topics</i> —Major, English; Mi- nors, Psychology, Philoso- phy	D. C.	738 11th Street
Ice, Harry Lawrence A.B., 1912, A.M., 1912, Beth- any College <i>Topics</i> —Major, Philosophy; Minors, English, Sociology	Md.	Mt. Rainier, Md.
Kellogg, Edward Henry S.B., 1911, Kansas State Ag- ricultural College <i>Topics</i> —Major, Chemistry; Minors, Bacteriology, Bio- chemistry	Wis.	C/o Dr. R. H. True, Bureau of Plant Industry



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Lowe, Edith Blinston A.B., 1911; A.M., 1912, George Washington Uni- versity <i>Topics</i> —Major, English; Mi- nors, English, History	Conn.	2622 Woodley Place
Oberholser, Harry Church A.B., 1914, George Washing- ton University <i>Topics</i> —Major, Zoology; Mi- nors, Zoology, Botany	N. Y.	1444 Fairmont Street
Palkin, Samuel Ph.B., 1910, Yale University; S.M., 1913, George Wash- ington University <i>Topics</i> —Major, Chemistry; Minors, Bacteriology, Mi- croscopy	D. C.	1215 I Street
Pierce, Ulysses Grant Baker B.D., 1890, Hillsdale Col- lege; A.B., 1909, D.D., 1909, George Washington University <i>Topics</i> —Major, Philosophy; Minors, Aesthetics, Eng- lish	D. C.	1748 Lamont Street
Roark, Ruric Creegan A.B., 1907, University of Cin- cinnati; A.M., 1908, Uni- versity of Illinois <i>Topics</i> —Major, Chemistry; Minors, Bacteriology, Phar- macology	Ky.	1668 Park Road
Rogers, Jerome Stanley B.S. in Chem., 1907, Syracuse University; S.M., 1909, University of Illinois <i>Topics</i> —Major, Chemistry; Minors, Bacteriology, Mi- croscopy	N. Y.	832 Rittenhouse Street

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Ryan, Will Carson, Jr. A.B., 1907, Harvard University <i>Topics</i> —Major, Education; Minors, German, Romance Languages	N. J.	Bureau of Education
Scott, James Robert A.B., 1908, University of California; M.D., 1912, Leland Stanford University (Cooper Medical) <i>Topics</i> —Major, Bacteriology; Minors, Preventive Medicine, Pathology	D. C.	1791 Lanier Place
Scheetz, Mildred Esthere B.E., 1913, State Normal School, Peru, Nebraska; M.D., 1912, M.S. in Med., 1913, State University of Iowa <i>Topics</i> —Major, Physiology; Minors, Physiology, Pathology	Iowa	Government Hospital for Insane
Smith, Harry Bradley A.B., 1901, Cornell University; Pd.M., 1913, State College for Teachers, Albany, New York <i>Topics</i> —Major, Education; Minors, Economics, Engineering	N. Y.	314 A Street, N. E.
Stout, Joseph Duerson A.B., 1910, M.D., 1913, A.M., 1914, George Washington University <i>Topics</i> —Major, Physiology and Pharmacology; Minors, Physiology and Pharmacology; Histology	D. C.	1435 9th Street



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Swett, Otis Dow	Md.	1325 H Street
LL.B., 1891, LL.M., 1892, S.B., 1904, S.M., 1909, George Washington Uni- versity		
<i>Topics</i> —Major, Chemistry; Minors, Chemistry, Bac- teriology		
*Townsend, Charles Henry Tyler	D. C.	National Museum
S.B., 1908, George Washing- ton University		
<i>Topics</i> —Major, Zoology; Mi- nors, Geology, Botany		

## COLUMBIAN COLLEGE

## CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Albes, John Conrad, 3d	3	D. C.	1737 Corcoran Street
Albertsworth, Edwin Franklin	46	D. C.	7106 Piney Branch Road
Appleby, Wilmer Conrad	32	Ind.	802 21st Place, Apt. 1
* Arledge, Caroline Mascotte	16½	D. C.	2628 Garfield Street
Ayler, Ruth Leah	41½	D. C.	21 Quincy Place, N. E.
Barr, Eugene Osmon	11	D. C.	510 A Street, N. E.
Barse, George Percy	30	Md.	1363 B Street, S. E.
Beckett, Leighton Dwelle	45	Iowa	2219 California Street
Bell, Margaret Wilson	27	D. C.	1629 Columbia Road
Benton, Ralph Webster	53	D. C.	462 O Street
Best, Joanna Elizabeth	33½	D. C.	1133 Euclid Street
Birnie, Martha Noyes	39	D. C.	1711 19th Street
Bixler, John Shively	11½	D. C.	821 Massachusetts Ave., N.E.
† Bland, William Thomas, Jr.	0	Kan.	2123 California Avenue
Bloedorn, Walter Andrew	45	D. C.	Navy Yard Quarters "K"
Bose, Norma	3	D. C.	1923 North Capitol Street
Boteler, May Hovencamp	18	D. C.	1604 Michigan Avenue
Bradley, Everett Lamont	7½	D. C.	60 S Street
Breuninger, Ruth	0	D. C.	3208 19th Street
Brewer, Elin Gilmore	58½	D. C.	608 Massachusetts Avenue
Brez, Yetta	21	D. C.	1624 9th Street

<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Brooks, Marian Augusta	8	D. C.	626 E Street, N.E.
Browne, Katherine Warren	12½	D. C.	2803 Ontario Road
Browne, Margaret Marian	33½	D. C.	1344 Girard Street
Bullough, Joseph Harold	7½	D. C.	122 Tennessee Avenue
Burke, Ellen Teresa	30	D. C.	531 Jefferson St., Brightwood Park, D. C.
Burleson, Adele Sidney	16½	Texas	1901 F Street
Burleson, Lucy Kyle	36½	Texas	1901 F Street
Burlingame, Lucy Llewellyn	3	D. C.	1419 22nd Street
Bursley, Herbert Sidney	1½	D. C.	57 R Street, N.E.
Burt, Edwin Caleb	41½	D. C.	1102 Vermont Avenue
Caemmerer, Johannes Paul	38½	Wis.	925 L Street
Campbell, Jean	9	D. C.	2017 F Street
Carden, Samuel Poe	22½	Texas	Y. M. C. A.
Carnahan, Lina Wright	7½	D. C.	1354 Monroe Street, Apt. 7
Carter, Amy Margaret	0	Ill.	1312 L Street
Cassel, Jesse C.	6½	Ohio	812 C Street, S.E.
Castleman, Robert Allen, Jr.	56	Md.	Drawer 148, Alexandria, Va.
Chamberlain, Ernest Rogers	44	Kan.	2017 H Street
Cohen, Sam Jacob	25½	D. C.	617 K Street
Connor, Daniel Allman	47	D. C.	130 D Street, S.E.
Copeland, Leland Stanford	54½	Mo.	1114 Euclid Street
Corea, (Mrs.) India Bell	28½	D. C.	1513 20th Street
Cowden, Anna Lestina	0	Md.	Laurel, Md.
Crain, Newel Berryman	14	Texas	Y. M. C. A.
Craton, Anna Washington	44	N. C.	1410 Girard Street
Cullen, Elizabeth Orlan	0	D. C.	307 B Street, N.E.
Cunningham, Julian Wallace	30½	D. C.	1636 Monroe Street
* Darby, Margaret	0	D. C.	1816 Kalorama Road
Davis, John Wesley	15	Mo.	1906 G Street
Davis, Lee Sherman	34½	N. Y.	Takoma Park, D. C.
DeGrange, Mark	8	D. C.	25 U Street, N.E.
Dickert, Eddie	50½	Va.	208 North Washington St., Alexandria, Va.
† Doing, Edwina Cory	15	Ill.	1945 Calvert Street
Doing, Jane	27	Md.	Beltaville, Md.
Douglas, Elsie Young	27	Fla.	The Sherman, 15th and L Streets
Drake, Alice Hutchins	11½	D. C.	2611 Adams Mill Road
* Duffy, Edward Francis	0	D. C.	1929 K Street
Dulac, Victor	60	D. C.	2807 14th Street
Dunsworth, Martin J.	15	Ill.	Bureau of Corporations
* Durant, Thomas J.	1½	Iowa	22 T Street



<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Elgin, Hugh Bassett	10½	Ky.	916 15th Street
Enlows (Mrs.), Ella			
Morgan Austin	37½	D. C.	1447 Newton Street
Erikson, Bernhard Edwin	16½	Ill.	2112 F Street
Evans, John Henry	0	Pa.	Y. M. C. A.
Evarts, Frances Louise	10½	D. C.	1647 Lamont Street
* Falconer, Harold			
Alexander	0	Wash.	2236 Cathedral Avenue
Farmer, Mary Caroline	28½	N. C.	651 Lexington Place, N. E.
Fearing, Justin Lincoln	12	Mass.	Bureau of Standards
Ferguson, Lina Huning	0	D. C.	1435 Clifton Street
Fisher, Howard Cochran	12	D. C.	3021 O Street
Fjeld, Alvin Leander	19½	S. D.	Y.M.C.A.
Fogerty, Gertrude			
Catherine	18	D. C.	1161 5th Street, N.E.
* Freudberg, Leopold V.	0	D. C.	61 K Street
Garner, Tully Charles	16½	Texas	1120 Vermont Avenue
Gatchell, Marie Ellen	30	D. C.	1736 Park Road
Geschickter, Frances S.	0	D. C.	1239 12th Street
Gilligan, William James	0	D. C.	2030 F Street
Godbold, Albea	0	Minn.	58 Randolph Place
Goddard, Eunice F.	9	Maine	2002 G Street
Gordon, Daisy	0	Maine	Hotel Cairo
Grabill, Mary Eloise	0	D. C.	Takoma Park, D. C.
Griffith, Alice Eleanor	45½	D. C.	1846 Ontario Place
Gsantner, Otto Carl, Jr.	49	D. C.	2811 24th Street, N. E.
Haines, Margaret	35	Pa.	2005 G Street
Hardy, Margaret Boude	30	D. C.	812 East Capitol Street
Harry, Edward B.	3½	D. C.	4715 River Road, D. C.
Harvey, Margaret Helena	7	D. C.	1603 Kenilworth Avenue
Haslup, Susie Waters	0	D. C.	205 9th Street
Hastings, Gertrude	15	D. C.	905 E Street, N. E.
Hazlett, Sylvia Jane	40½	Pa.	2005 G Street
Hearne, Susan Snell	1	D. C.	1307 P Street
Heath, John	52½	D. C.	Wyoming Apartment
* Heiss, Frank C.	8½	N. Y.	1105 P Street
Henry, Conder Caywood	54½	Tenn.	2036 F Street
Heron, Katherine Juanita	0	D. C.	5437 Connecticut Avenue
Herrera, Geigel Luis	30	P. R.	1013 H Street
Herrmann, Jane Elizabeth	6	Md.	Kensington, Md.
Hidnert, Peter	29	N. Y.	1702 F Street
* Hitchner, Edward Scott	0	D. C.	1753 Willard Street
Hobbs, Ewart William	46	Ill.	R. F. D. No. 4, Box 196 B
Hodgkins, George Wilson	39½	D. C.	1830 T Street
Holm, Adolph F.	0	Minn.	2226 Decatur Place

Name	Credits	Legal	
		Residence	Address
Horbett, John Edward	12	N. Y.	933 M Street
Hotchkiss, Helen Kendall	6	D. C.	2 Kendall Green
† Hsie, Changhsi	0	China	2006 Columbia Road
Hughes, Lotus Graham	33	W. Va.	1788 Columbia Road
Hull, Flora	47½	Neb.	The Iowa
Hunsinger, Belford E.	32	Ohio	151 Ashland Terrace, N. E.
† Hurley, Alice	30½	Okla.	The Cavendish
Jeffries, John Miller	13½	D. C.	1800 New Hampshire Ave.
Johnston, Francis Edgar	3	Va.	Alexandria, Va.
Jonas, Josephine Marie	1½	D. C.	1839 Kalorama Road
* Jones, Harry B.	9½	N. J.	3114 Mt. Pleasant Street
Jones, Laura Elizabeth	0	N. Y.	617 C Street, N. E.
Kahn, Esther	3	D. C.	2515 University Place
* Kalaw, Maximo M.	10½	P. I.	148 House of Representatives
Kebler, Victor Lyman	3½	D. C.	1322 Park Road
Kerr, John Conlin	16½	Va.	Herndon, Va.
Kingsbury, Joseph Bush	45½	Iowa	2022 F Street
Kirchner, Lester Frank	0	D. C.	1638 6th Street
Lamb, William Harrison	50½	Neb.	National Press Club
Lasier, Harriet Catherine	53½	N. H.	1427 Girard Street
Lauck, Rex W.	2½	W. Va.	1445 Massachusetts Ave.
† Lavadia, Pedro Celestino	54	P. I.	519 Massachusetts Ave.
Lehr, Milton Anthony	0	D. C.	5617 Colorado Avenue
* Levey, Nathan	0	D. C.	1109 14th Street
Lewis, Ollie L.	18½	Ky.	2226 Decatur Place
Lindow, Oscar Henry	0	D. C.	2132½ H Street
Little, Florence Maxwell	17	D. C.	1213 East Capitol Street
Lockwood, Chester Walker	0	D. C.	2212 Massachusetts Ave.
Louden, Mildred	3	D. C.	1031 Park Road
Love, Rebecca Laurens	37½	Va.	910 Massachusetts Ave.
Lucal, Ira David	1½	Ohio	Y. M. C. A.
Lufburrow, Norman Alfred	25½	N. J.	Y. M. C. A.
Lyons, Katherine	0	D. C.	1349 Columbia Road
McArthur, Louis Eugene	24	Utah	Interstate Commerce Commission
McCarteney, Summerfield	46	Va.	3123 Dumbarton Avenue.
McCleary, Dorothy	34	D. C.	217 I Street
† McIver, Frances	0	D. C.	1724 Connecticut Avenue
McKnew, Donald Harrison	23	D. C.	The Burlington
McKnight, Anna Lelia	27	D. C.	3935 7th Street
Manning, Thomas Ralph	30	D. C.	22 2d Street, N. E.
Marthinson, Detlow Mainch	0	D. C.	1788 Columbia Road
Meesse, Norman Sheridan	9	N. Y.	1601 15th Street



<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Mentzer, Florence Eberly	20½	Pa.	605 North Carolina Ave., S. E.
Middleton, George Elmer Ohio State University, 1912	71½	D. C.	1705 Kilbourne Place
Miller, Karl Willett	14	D. C.	44 V Street
Monroe, Helen Walker	10½	D. C.	2413 18th Street
Monroe, Joseph Elmer	0	D. C.	1710 Oregon Avenue
Mosher, Edith R.	19½	D. C.	Forest Service
Munger, Hester Irene	15	D. C.	1618 North Capitol Street
*Naetzker, Louis	2	N. Y.	1788 Columbia Road
Nafziger, Raymond E.	0	Neb.	714 18th Street
*Needham, Arthur E.	9	Mass.	War Dept., Room 253
Nelson, Agnes E. G.	42	Wis.	2240 Cathedral Avenue
Nelson, Norman Justin	33	N. D.	3114 Mt. Pleasant Street
Neumann, Frederika	49	D. C.	701 A Street, S. E.
Neumann, Louis Delmar	12	Ill.	1717 S Street
Neumann, Meta	15	D. C.	701 A Street, S. E.
Nichols, Henry Janney, Jr.	3	D. C.	3030 Q Street
Niess, Edwin Mark	18½	D. C.	61 Rhode Island Avenue
O'Connor, Rosalie Mary	0	Mich.	1725 Riggs Place
Ostrow, Walter W.	17	Va.	915 22d Street
Padgett, Mildred	0	D. C.	1757 U Street
Paine, Ethel Charlotte	3	D. C.	510 Randolph Street
Parsons, Priscilla Bartlett	0	D. C.	3414 Newark Street
Payne, James Stanley	27½	D. C.	818 North Carolina Ave. S. E.
Pierce, Lois Emma	6	D. C.	229 Pennsylvania Ave., S. E.
Peter, Frances Irene	15	Ill.	1832 Biltmore Street
Phoebus, Mildred Anna	19½	D. C.	1925 North Capitol Street
Pierce, Fay Elizabeth	20	D. C.	1748 Lamont Street
Piper, Edgar Raymond	50	Conn.	2106 F Street
Popkin, Hymen	10½	N. J.	1613 8th Street
Preinkert, Alma Henrietta	22	D. C.	1511 L Street
Quinlan, Margaret Marie	40½	N. Y.	1228 Massachusetts Ave.
Ramsey, Herbert Percy	32½	D. C.	813 Massachusetts Ave., N. E.
Reh, Emma	6	D. C.	1352 Good Hope Road, S. E.
Renner, Wilbert Vernon	32½	D. C.	1405 F Street
Richardson, Elizabeth Laura	0	D. C.	1001 Alabama Ave., S. E.
Riley, Thora M.	40	D. C.	2141 LeRoy Place
Robinson, Dorothy	15½	D. C.	3314 Newark Street
Romney, Kenneth	20½	Mont.	119 2d Street, N. E.
Ruff, Julia Elizabeth	31½	D. C.	55 A Street, S. E.

<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Russell, Paul George	32½	N. Y.	3538 Warder Street
Ryerson, Herbert Edway, Jr.	0	Md.	R. F. D., No. 6, Congress Heights, Md.
St. Clair, Albert Thurston	29½	D. C.	1319 T Street
Salant (Mrs.), Annie	44	D. C.	3429 34th Place
Schellfeffer, Frank	2½	Ill.	Y. M. C. A.
Schoenfeld, Margaret H.	0	D. C.	3448 34th Place
Schoenfeld, Rudolph Emil	40½	D. C.	3448 34th Place
Scott, Howard	14	D. C.	1715 Euclid Street
Seamon, Alexander Rives	58½	Va.	Drawer 148, Alexandria, Va.
Seibold, Theodosia Darling	18	D. C.	756 Rock Creek Church Road
Seiler, Paul Basil	25½	D. C.	2022 F Street
Short, Helen Margaret	35	D. C.	1511 Park Road
Shufeldt, Henry Howey, II	0	Germany	The Highlands
Smith, O. Thaxter		D. C.	1201 Q Street, Apt. 305
Snider, Ivan	46½	Okla.	Y. M. C. A.
Snyder, Carl Francis	28½	D. C.	3111 16th Street
Southgate, Letitia Park	46	D. C.	1443 Fairmont Street
Spamer, Carl Ober	26½	Md.	1769 Willard Street
Stanton, Eleanor Winifred	4½	R. I.	3323 O Street
† Stadtman, Claud Edward	36	Okla.	Ft. Meyer, Va.
Starbird, Abby Andrews	0	Maine	Dept. of Agriculture
*Stecher, Karl	0	Kan.	Y. M. C. A.
Stewart, Lettie Ethel	0	D. C.	2411 1st Street
Stewart, Phyllis Patricia	0	D. C.	1812 Lamont Street
Stiefel, Dorothy	3	D. C.	3157 Mt. Pleasant Street
Stokes, John H. Jr.	0	D. C.	The Portner
† Stout, Henry I. N.	15	D. C.	1435 9th Street
M.D., 1907, George Washington University			
Stout, Jane Norman	18	D. C.	1435 9th Street
Styer, Ralph Aaron		Pa.	933 M Street
Swann, Theodore Magruder	48	Va.	Potomac, Va.
Taggart, Earle	34½	Iowa	1353 Park Road
Tashof, Leon Anthony	3	D. C.	437 2d Street, S. E.
Tepper, Benjamin Lionel	51	D. C.	1244 Evarts Street, Brookland, D. C.
Terry, Leo Claude	37	D. C.	2022 F Street
Thomas, Edith Wheelock	1½	D. C.	3225 18th Street
Thomas, Lisle	25½	Mich.	901 M Street
Timms, Minnie Emelie	24½	Wash.	1426 K Street
Tunstall, John Liggat	12	D. C.	1713 Kilbourne Place
Uhler, Chester Richards	3	Pa.	1318 12th Street



<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Van Kirk, Lloyd H.	33	Pa.	1845 Ingleside Terrace
Wanlass, William Lawrence	45	Utah	2106 F Street
Warnke, Harry Frederick	0	Ohio	1920 H Street
West, Warren Reed	8	D. C.	304 D Street, N. E.
Wiesen, Louis John	3½	Pa.	2231 1st Street
Wilbur, Elizabeth Sabrina	31½	D. C.	1205 Columbia Road
* Wilkins, Joan Babette			
Thedora	0	D. C.	1743 U Street
Williams, Christopher Harris	0	D. C.	1607 16th Street
Wilson, Elizabeth Webb	3	D. C.	316 B Street, S.E.
Wilson, Mary Badger	7	N. C.	1901 Q Street
* Wimer, Alfred Kingston		D. C.	114 S Street
Wingate, Florence	11½	D. C.	2641 Garfield Street
Winne, Rachel Augusta	18	N. Y.	309 9th Street
Wolf, Ethel	18	D. C.	
* Wolfe, Leo Addison	41	D. C.	The Burlington
† Wong, Yuen Su	0	China	2016 G Street
Worrell, Everil	53	D. C.	The Naples
Wu (Mrs.), Su-Ying Chiao	12	China	1430 V Street
Yost, Elsie May	37	D. C.	1002 Pennsylvania Avenue, S. E.
Zirkin, Ida	0	D. C.	821 14th Street

## CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY

Boyle, William Augustus	6	N. Y.	2032 F Street
* Brandt, Warren Fisher	0	Pa.	22 2d Street, N. E.
Brattain, Paul Henry	7½	Ind.	420 10th Street, N. E.
Breneman, Claude Royal	29	D. C.	1014 10th Street
Brill, Julius	16	D. C.	1307 R Street
Brockwell, John Francisco	55	N. C.	1259 Morse Street, N. E.
Cathcart, Paul Hamilton	8½	Va.	Ballston, Va.
Coleman, Malcolm Austin	3	Kan.	Bureau of Animal Industry
Cooper, George Spencer	3	D. C.	1819 Wyoming Avenue
Diesman, Justin P.	19	Ky.	Apt. 425
Donk, Peter John	49	D. C.	1706 F Street
DuVal, Russell Lee	3	D. C.	621 A Street, N. E.
Engel, Abraham	30	N. Y.	1112 10th Street
Finch, Ruy Herbert	0	Ohio	Y. M. C. A.
Fogle, Fred Matthew	13	D. C.	3715 Woodley Road
Ford, Florence Marion	19	Del.	1828 H Street
Galloway, Alfred E.	18½	Ohio	617, Y. M. C. A.
Garland, George W.	5	D. C.	1354 North Carolina Ave., N. E.
Gersdorff, Wilbur August			
Julius	15	D. C.	1825 North Capitol Street

Name	Credits	Legal		Address
		Residence		
Goodman, Leopold A.	30½	Mass.		201 Morgan Street
Hall, Walter J.	21	N. Y.		642 C Street, N. E.
* Halstead, Noble D.	0	Ind.		437 Luray Place
Hamilton, Bonifant	1½	D. C.		3135 24th Street, N. E.
Harris, Arthur T.	3	N. Y.		Geophysical Laboratory
Harrison, Arthur Pennoyer	17	Md.		601 21st Street
Hart, John Allen	5	D. C.		709 8th Street, N. E.
Heindl, Raymond Albert	25½	Wis.		601 21st Street
Hellmuth, Everett Albert	10½	Va.		108 N. Alfred St., Alexandria, Va.
* Hoffman, Arthur Joseph	1½	N. Y.		Bureau of Standards
Houghton, Louis Stedman	9	Ind.		Arlington, Va.
Hummer, Aubrey Eugene	3	D. C.		1131 8th Street, N. E.
Kain, Helen Gladys	20	D. C.		129 E Street
Karger, Theresa	26	D. C.		2616 Cathedral Avenue
Kass, John	5	Mich.		Y. M. C. A.
Kirkpatrick, James, Jr.	6	Md.		Bethesda, Md.
Krafft, Carl Frederick	12	Wash.		1104 12th Street
Larson, Archibald J.	57	Wis.		1300 Massachusetts Ave.
Levy, Harry	2	D. C.		806 21st Street
McConkey, Mont.	2½	D. C.		904 M Street
Markley, Klare Stephen	4½	Md.		Room 630, Munsey Bldg.
Maryman, J. Edgar	19½	D. C.		1304 Emerson Street, N.E.
Mehurin, Roger Melville	55½	D. C.		2031 F Street
Miles, Helen Augustus	30½	D. C.		131 A Street, N. E.
Mitchell, John LeRoy	6	Pa.		1241 B Street, S. E.
Paull, Elizabeth Aldridge	0	Va.		2010 G Street
Perkins, Edgar Adam	0	D. C.		Station H, R. F. D. No. 1
Phillips, George Washington	21	D. C.		612 18th Street
Ramsdell, Paul Charles	14	D. C.		1945 Calvert Street
Scala, Norman Philip	7	N. Y.		918 So. Carolina Ave., S. E.
Scales, Freeman Montague	30	D. C.		The Glen No. 2, Quarry Road
Schmidt, Reuben	20	D. C.		13 H Street
Seiler, Alfred Grove	14	D. C.		American University Park
Smith, Duncan Campbell	56	Md.		Rockville, Md.
Snider, George Gordon	26½	Mich.		928 14th Street, Apt. 5.
Snyder, Carl Francis	28½	D. C.		3111 16th Street
Stockett, Norman Joseph	3	D. C.		923 North Carolina Ave., S. E.
Thawley, William Roland	0	Md.		Laurel, Md.
* Tietig, Chester	28½	Ohio		1400 L Street
Tonkin, William Henry	0	D. C.		2121 15th Street
Walton, Melville Ralph	51	Ill.		816 I Street, N.E.
Wu, Ying	21½	China		1430 V Street
Young, James Lawrence	0	D. C.		2509 Wisconsin Avenue



## CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Berman, Morris I	6½	Minn.	1501 11th Street
* Bishop, Harry A M.D., 1912, University of Maryland	37	D. C.	1913 I Street
Borden, Dan LeRay M.D., 1912, George Washington University	42½	D. C.	1621 Connecticut Avenue
Conklin, Coursen Baxter M.D., 1907, George Washington University	37	D. C.	1344 R Street
Davis, George von Pullinger M.D., 1910, George Washington University	41½	D. C.	1706 9th Street
Herzmark, Maurice Hart	0	D. C.	1911 Pennsylvania Ave.
Hunter, Oscar Benwood M.D., 1912, George Washington University	37	Va.	2021 H Street
McChesney, Frank Marks	0	D. C.	129 Randolph Place
Pagan, Albert Elwood M.D., 1912, George Washington University	37	D. C.	1624 I Street
† Shockley, Francis M., M.D., 1913, University Medical College, Kan- sas City, Mo.	47½	Kan.	Government Hospital for Insane
* Wemple, John Corley	0	N. Y.	The Rochambeau
Yater, Wallace Mason	0	D. C.	1013½ I Street, N. E.

## PRE-MEDICAL COURSE

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Bailey, Robert Livingstone	Va.	1024 Vermont Avenue
Barone, Charles	N. Y.	1411 E Street
Bassett, George Overton	D. C.	604 7th Street, N. E.
Brown, Julian Belknap	Fla.	1445 Massachusetts Ave.
Campbell, Elliot Muse, Jr.	D. C.	1757 Columbia Road
Carr, Elma Bebee	Ky.	Bureau of Labor Statistics, Dept. of Labor.
* Chamberlain, George Earle	Ore.	Senate Committee on Mil- itary Affairs
* Daly, Margaret A	D. C.	36 Rhode Island Avenue
Davis, David	D. C.	1200 Morse Street, N. E.

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Decker, Raymond Vincent	D. C.	915 Florida Avenue
Doctor, Ratansha Merwanji	India	1743 F Street
* Donohue, John Carroll	D. C.	947 E Street
Gutierrez, Francisco Andres, Jr.	P. R.	1310 I Street
Joergensen, Hans	Germany	812 E Street, S. E.
King, William Binford	D. C.	1900 S Street
Lawson, Edward Frank Burnett	D. C.	206 13th Street, N. E.
Mandelos, Nicholas Athanasios	D. C.	517 13th Street
* Maxwell, Joseph Ramsey	D. C.	1409 Belmont Street
Shapiro, Hyman David	D. C.	95 L Street
*Shirley, Thomas Edward Barron	Va.	Mt. Air, Accotink, Va.
Smart, James Alexander	Va.	3301 13th Street
Stibbs, H. Weston B.	N. Y.	1907 G Street
Zerbe, John Bertolet	Pa.	1024 Vermont Avenue

## SPECIAL

Adams, Harry Kuteman	S. C.	National Training School
Agnew (Mrs.), Ethna Mercedes	D. C.	1791 Lanier Place
*Alexander, Julia Graham	D. C.	1845 North Capitol Street
* Allen, Mary Pratt	D. C.	1113 East Capitol Street
*Altman, William Lee	S. C.	1223 K Street
*Anderson, Grace L.	D. C.	2124 P Street
Baker, William Edward	D. C.	Y. M. C. A.
Ballard, Audrey B.	Okla.	The Ruskin, 2020 Sherman Ave.
Bartsch, (Mrs.) Sigue Guerdrum	D. C.	2416 14th Street
†Bates, Lloyd Graham	Pa.	2011 Columbia Road
*Baughman, Thomas Franklin	Ky.	Apt. 25, The Valois
Beard, Edward Albert	Md.	Rockville, Md.
Beckham, Mary Virginia	D. C.	2721 N Street
Beekwith, Angie Maria A.B., 1904, Univ. of Michigan	Mich.	1669 Columbia Road
†Boggs, Mary C.	D. C.	Metropolitan Hotel
Booker, Yelverton Evans, Jr.	Va.	1613 30th Street
Bower, Ruth	Kan.	2715 13th Street
Brandt, George Louis	D. C.	613 B Street, S. E.
*Brez, Florence	D. C.	1624 9th Street
*Bright, Harry A.	Pa.	1437 Belmont Street
Broadbent, Ruth Dorothy	D. C.	112 Adams Street
Brockman, William Everett	Va.	1012 B Street, N. E.
Brown, Harold Leahy	Iowa	1700 15th Street
Brown, (Mrs.) Jeanne Wakefield	D. C.	103 The Argyle



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Brown, Ralph Minthorne	D. C.	1324 Monroe Street
†Brown, Roger A.	Iowa	1719 15th Street
Brown, Wager Swayne	D. C.	5301 Connecticut Avenue
Brungart, Vera Catherine	Mo.	814 Massachusetts Avenue
*Brunner, Frederick J.	D. C.	Juvenile Court
Buckingham, Edgar Cole	D. C.	201 2d Street, S. E.
*Burdette, Catherine	D. C.	1409 16th Street
Burg, Robert Edward	D. C.	910 10th Street, N. E.
*Cake, Raymond Clark	Pa.	602 Y. M. C. A.
Camfield, Lionel Henry	D. C.	1407 Buchanan Street
Campbell, Susan Travers	Md.	Riverdale, Md.
Carlson, Vivian	N. Y.	1412 Massachusetts Ave.
Carter, Jennie Delle	Ill.	306 C Street
†Cheatham, Ida May	D. C.	1757 K Street
*Chidester, Robert Wellington	W. Va.	1736 G Street
Clark, Clyde F.	Iowa	1201 Q Street
Clark, Dana Edward	Mass.	2026 F Street
Cleaves, Florena	Kan.	1102 Monroe Street
A.B., 1910, Southwestern College		
*Clepatch, Bertha Faga	D. C.	326 11th Street, S. E.
*Coddington, Dora I.	Iowa	1219 M Street
Collins, (Mrs.) Elinore Waldron	D. C.	1801 K Street
Collins, Georgie Antoinette	D. C.	Apt. 305, The Woodworth
Compton, Rowena U.	D. C.	207 East Capitol Street
*Connery, Helen Maud	Md.	1104 Vermont Avenue
*Connolly, Mary E.	D. C.	1635 Irving Street
*Connor, Alice Marie	D. C.	1111 6th Street, S. W.
*Cottle, Gertrude Belle	Ohio	510½ 2d Street, S. E.
*Crist, Marian Brownell	D. C.	1720 Willard Street
Cullum, Clarence S.	D. C.	109 Bates Street
Dadmun, Julia Margaret	Va.	Vanderwerken, Va.
*Deuterman, William Boesser	D. C.	818 North Capitol Street
*Doyle, Richard Smith	N. H.	1204 Massachusetts Ave.
Draper, Anne Elizabeth	D. C.	Bureau of Chemistry
*Dull, John Wesley	D. C.	2127 F Street
†Dunn, Charles Comiskey	D. C.	1349 Massachusetts Ave., S. E.
Easterling, Alice	D. C.	1223 Euclid Street
†Eaton, Frank M.	Neb.	2036 F Street
†Echols, Oliver Patten	Va.	2053 Park Road
Edwards, Mary Helen	D. C.	904 Pennsylvania Ave., S. E.
Egbert, (Mrs.) Rica B.	D. C.	1739 First Street
Enlows, Harold Franklin	D. C.	Office of Indian Affairs

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
*Fenton, Elmer Harry	Mo.	1101 K Street
Ferguson, Marion Frances	D. C.	1239 Kenyon Street
Field, Luella	D. C.	1934 Calvert Street
Finn, Alfred Nelson	Colo.	Room 620, Y. M. C. A.
Fisher, Marie Evelyn	D. C.	1802 Wyoming Avenue
Forbes, Charles Sidney	D. C.	1861 Newton Street
*Foster, Esther R.	D. C.	1312 L Street
Fox, Paul J.	D. C.	Bureau of Soils
*Frederick, Alfred Hardin	Tex.	1236 Euclid Street
Gardner, Ella	D. C.	3367 18th Street
Gibson, Katherine McClellan	D. C.	1459 Monroe Street
*Goodhart, Grace Mason	D. C.	52 S Street
Goodrich, Hattie Estelle	D. C.	724 F Street, S. W.
Gorman, Clyde Dale	Pa.	1211 Euclid Street
Gott, Anna Elizabeth	D. C.	1436 N Street
Gray, Shirley E.	Ill.	1359 Girard Street
*Gunther, Kate Whitcomb	D. C.	2129 18th Street
*Hahn, Beatrice	D. C.	1849 Kalorama Road
Hall, Grace Louise	D. C.	1832 Park Road
Hamilton, (Mrs.) Minerva Davis	Colo.	16 3d Street, S. E.
Hardy, Rose Lees	D. C.	812 East Capitol Street
Harkness, Arthur Williams	D. C.	605 22d Street
Harper, Charles Wilson	S. C.	1801 G Street
Hastings, William Riley	Tenn.	1006 B Street, S.W.
Hauke, Rilla May	D. C.	605 Massachusetts Ave., N. E.
Hayden, Margaret	D. C.	1824 G Street
Heimark, Julius J.	Minn.	Gallaudet College
Heistermann, Carl August	Iowa	Room 320, Dept. of Labor
†Henckels, Theodora Katherine	D. C.	The Mendota
Hetfield, Emily Orme	D. C.	1233 Lawrence Street, Brookland, D. C.
Hildebrand, Jesse R.	D. C.	233 2d Street, S. E.
*Hillyer, Grace	D. C.	3348 Woodley Road
Hodge, Paul Ferdinand	D. C.	2312 19th Street
Horner, Elva E.	Pa.	The Victoria, Apt. 34
*Hotchkiss, Mary	D. C.	2 Kendall Green
*Howe, Anna M.	D. C.	2703 14th Street
Huff, Elkanah Wynn	Colo.	2134 F Street
Hummer, Elizabeth Alice	D. C.	812 East Capitol Street
†Hundley, (Mrs.) Elizabeth Hill,	Mo.	2107 S Street
Huneke, Cecelia	Colo.	1335 Corcoran Street
*Ingle, Mark James	Pa.	1736 G Street

B.S. in Chem., 1907, University of Pennsylvania



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Ise, W. J. LL.B., LL.M. Yale University	Kan.	1405 6th Street
Jordan, Edna M	N. H.	The Victoria, 14th and Clifton Sta.
*Kause, Arthur John LL.B., 1913, George Washing- ton University	Ohio	1905 Jackson Street, N. E.
Keefauver, Lester Summers	Md.	Berwyn, Md.
†Keeler, Joseph M.	D. C.	650 Massachusetts Ave., N. E.
Keenan, Mabel	Md.	36 R Street, N. E.
†Kelley, Eva Phelps A.B., 1913, George Washing- ton University	D. C.	145 Baltimore Ave., Takoma Park, D. C.
†Kelly, William Michael	Colo.	1815 Lamont Street
Kenly, Henry Closson	D. C.	1359 Columbia Road
*Kerlin, Malcolm	N. J.	1421 Harvard Street
Kimmell, Helen Marie	D. C.	1817 Kalorama Road
*Kohl, Arthur P.	Iowa	1331 N Street
†Krebs, Heinrich	Germany	Y. M. C. A.
Lamson, Fanny Parnell	D. C.	1306 O Street
*Lawrence, Violet Adele	D. C.	1419 Chapin Street
†Lent, Margarette	D. C.	1528 Corcoran Street
Lepper, Mary Anne	Ohio	1315 K Street
Lewis, Floyd Emerson	D. C.	1103 Florida Ave., N. E.
*Lippitt, Frances	D. C.	1739 N Street
Lipscomb, Helen Irene	D. C.	The Ontario
McCarty, (Mrs.) Adelaide Bernard	D. C.	1315 Fairmont Street
McClintock, Laura Madeline	Pa.	1301 N Street
McCoy, John Scott	D. C.	312 McLean Ave., S. W.
McEntyre, Mary	D. C.	Rock Creek Church Road
McGill, Mary Cecelia	D. C.	1415 Chapin Street
Macmillan, Julia Theckla S.B., 1907, S.M., 1911, George Washington University	D. C.	1314 12th Street
*Magoffin, Dorothy	D. C.	1680 Irving Street
Mains, Gerald Harper B.S., 1914, Michigan Ag. College	Mich.	3114 Mt. Pleasant Street
*Maloney, Emma Jane	D. C.	The New Berne
Manock, John Kay	Pa.	2024 F Street
†Mann, Lester B.	D. C.	2034 F Street
†Mansfield, Wendell C.	D. C.	2028 G Street
Marbut, Musa	N. C.	Kendall Green

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Marshall, Emma Blanche	D. C.	1430 Rhode Island Ave.
*Masson, Mary G.	D. C.	1326 Valley Place, Anacostia, D. C.
Maurice, Lillian Hunter	D. C.	619 Pennsylvania Ave., S. E.
*Menzel, Margaret Laura	D. C.	1920 G Street
Merrill, (Mrs.) May D.	D. C.	1728 Lamont Street
Merryman, Leo Arthur	Mo.	Y. M. C. A.
Middleton, Ellis Spear	D. C.	1834 Lamont Street
Milne, George Heron	D. C.	Library of Congress
Miner, Helen	Ohio	1613 Irving Street
Minor, Carl Olin	Iowa	Y. M. C. A.
Moneyway, James Lewis	Fla.	2838 27th Street
A.B., 1912, George Washing- ton University		
Moore, James Ballard	D. C.	1769 Columbia Road
LL.B., 1913, George Wash- ington University		
Moore, Kate Carroll	D. C.	2024 15th Street
A.B., 1912, George Washing- ton University		
*Mott, Isabelle	N. Y.	917 19th Street
*Murray, Edith Pearre	Md.	2611 Woodley Place
Nelson, Axel	Minn.	American Bank Building
Nelson, Ina Forrest	D. C.	1308 Belmont Street
Newman, Harry Anderson	D. C.	808 Maryland Ave., N. E.
Nicklin, Russel Granville	Va.	319 South Pitt Street, Alexandria, Va.
†Nichols, (Mrs.) Frances S.	D. C.	1425 T Street
Norman, Caroline Blair	Md.	S. E. Division, Pension Bu- reau
†O'Neill, Meredith Ambrose	Mo.	310 No. Carolina Ave., S. E.
Outwater, (Mrs.) Kate Sorrell	D. C.	620 F Street, S. W.
Owen, Dorothea	Okla.	1731 K Street
Owens, Thomas Guy	Md.	Arlington, Va.
Owens, Walter Jefferson	D. C.	The Newport, Apt. 41
Pahl, Leopold Fridrich William	D. C.	Congress Heights, D. C.
Park, Louise	D. C.	1511 13th Street
Parker, Mamie Collins	Ky.	2523 14th Street
Partington, (Mrs.) Elizabeth Hamilton	Md.	Forest Glen, Md.
*Peake, William C.	D. C.	912 7th Street, N. E.
Peet, Elizabeth	D. C.	Gallaudet College
†Peterson, Alvin Ray	Ill.	Bureau of Corporations
Poast, Florence Maude	Neb.	Smithsonian Institution



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
*Powell, Maud	Ill.	C/o Chief of Ordnance, U. S. A.
*Pray, Lloyd G.	Mich.	1930 18th Street
Probey, Arthur	D. C.	3159 O Street
Rager, Amy Elizabeth	D. C.	812 21st Street
*Ramsey, Besse Lucile	D. C.	1934 Calvert Street
Reich, Lily Wood	D. C.	1339 30th Street
Richards, Boyd Janna	Va.	Box 353, Alexandria, Va.
Riker, Milward Wheeler	D. C.	1328 Harvard Street
Rizer, Ruth	D. C.	1464 Belmont Street
Robbins, Lulu V.	Pa.	1224 13th Street
*Rohrer, Anne	D. C.	2112 F Street
†Rutter, (Mrs.) Janet S.	D. C.	1442 Belmont Street
*Saito, Hiroshi	Japan	1310 N Street
Schaffer, Jacob M.	N. Y.	1307 16th Street
Schiffer, Marie Veronica	Mich.	1007 13th Street
Schnare Lester Llewellyn	Ga.	Y. M. C. A.
LL.B. 1913, George Wash- ington University		
Schroeder, Sarah Franklin	D. C.	1816 N Street
*Seville, Marian Wells	D. C.	117 11th Street, S. E.
Shaffer, Joseph M.	Mass.	201 Morgan Street
Sheffield, Edgar Lee	D. C.	1316 15th Street
*Shelley, Elisabeth	Ala.	2007 O Street
*Shelp, Gertrude A.	N. Y.	1215 12th Street
*Shepard, Donald D'Arcy	D. C.	429 Massachusetts Ave.
Shinnick, Herbert Hanserd	Md.	Friendship Heights, Md.
*Shoecraft, Eugene C.	Mo.	Y. M. C. A.
Shuman, (Mrs.) Mary Barker Crandall	N. J.	3519 14th Street
*Silvester, Jane B.	D. C.	2005 Kalorama Road
*Simpson, L. Maud	D. C.	324 Seaton Street, N. E.
Simpson, Mary Kirk	Va.	1212 34th Street
Simpson, Stephen Milton	D. C.	2439 Ontario Road
†Skinner, Frances Beckwith	D. C.	2525 Wisconsin Avenue
*Smith, Hawley Armistead	D. C.	637 Massachusetts Ave., N. E.
Snowden, Elizabeth Victoria	D. C.	1822 Ingleside Terrace
Soule, Hope Mildred	D. C.	107 2d Street, N. E.
†Spamer, Frieda Lorenz	Md.	1769 Willard Street
Speake, Katherine G.	D. C.	The Westmoreland
*Spear, Albert A.	D. C.	46th Street, N. E.
Stahr, Walter	D. C.	2022 I Street
*Stannard, Winfield Hancock	D. C.	Bureau of Standards
Steerman, Blanche	D. C.	2610 Woodley Place

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
†Steever, Laura W. S.B., 1911, George Washing- ton University	D. C.	2106 F Street
Stein, Hattie	D. C.	26 Concord Apartment
Steinberg, Alfred Julian A.B., 1914, George Washing- ton University	D. C.	1229 M Street
Stine, Phebe	D. C.	2320 1st Street
*Stow, Norman Chastain	D. C.	35 Q Street, N. E.
Sturtevant, Georgia Anna	D. C.	2233 Q Street
*Sullivan, Joseph Anthony	N. Y.	2028 L Street
*Tanner, Marion Snow A.B., 1911, University of Utah; LL.B., 1914, George Washington University	Utah	1700 15th Street
Taylor, Florence Mary A.B., 1914, George Washing- ton University	D. C.	100 5th Street, N. E.
Taylor, Maude	D. C.	816 B Street, S. W.
Temple, Grace Lincoln	D. C.	The Farragut
†Tesché, Leo Mortimer	D. C.	3339 Nicholas Avenue
*Thomas, Arthur Newlon	N. Y.	Library of Congress
Thompson, Francis L.	D. C.	421 B Street, N.E.
Thompson, George Dixon	D. C.	3155 19th Street
Thorwarth, Julia Helen	D. C.	1320 Park Road
Toner, Carrie Estelle	D. C.	3033 16th Street
Umhau, Emilie Mary	D. C.	3305 16th Street
*Valentine, Lincoln George Washington	N. Y.	1757 K Street
Wade, Roy Walter	Mo.	2439 N Street
*Wahl, Einar Arnold	Minn.	The Burlington
Wall, Adelaide Dorothy	D. C.	4009 14th Street
*Weaver, Leslie	Texas	1327 8th Street
Weinstein, Reuben A.B., 1914, George Wash- ington University	N. Y.	24 N Street
Westover, Harvey Leroy	N. Y.	232 Rhode Island Avenue
Wheeler, Alden Meyers	Cal.	382 House Office Building
Whitney, Alvin Goodnow	Mass.	1216 Euclid Street
*Whitney, Cornelia	D. C.	47 D Street, S. E.
Willard, Nana Beatrice	D. C.	623 M Street
Williams, Edith Arvonja	D. C.	3512 11th Street
Willis, George Bullock	Va.	Alexandria, Va., Route 3
*Wilson, Margaret Posey A.B., 1914, George Washing- ton University	D. C.	219 1st Street, N. E.



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Woldstad, Rachel Mellen	Mass.	1846 Ontario Place
Wooden, Walter Banfill	D. C.	Bureau of Corporations, Dept. of Commerce
Woodin, Virginia	D. C.	713 19th Street
*Woolsey, Theresa Amelia	Colo.	1335 Corcoran Street
Wright, Grace Viola	D. C.	The Montgomery
Yoakam, (Mrs.) Aurie Thayer	D. C.	2023 O Street
*Zacharias, Robert Mathias	Pa.	1717 S Street
A.B., 1907, Franklin and Marshall College; LL.B., 1913, George Washington University		
Zapoleon, Louis B.	D. C.	2523 14th Street
Zimmerman, Lillie Lee	D. C.	907 Massachusetts Ave.

## COLLEGE OF ENGINEERING

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE  
IN ARCHITECTURE

<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
*Barr, James Russell	0	D. C.	816 K Street
Bolton, Meade	31	Md.	1832 Jefferson Place
Carpenter, Clarence Forrest	27½	Ind.	601, Y. M. C. A.
*Colbert, Maurice Roger	0	D. C.	808 22d Street
Conboye, William Thomas	27	Cal.	311 M Street
Coulon, Eugene Enet	9½	La.	918 18th Street
Daidy, George Augustine	5	Mass.	1202 N Street
Edwards, Thomas Rives	1	D. C.	220 9th Street, N.E.
Fadeley, Fenton Mercer	0	D. C.	1527 Newton Street
Flemer, H. Lewis	35½	D. C.	701 Maryland Ave., N. E.
Goddard Arthur Herbert	21½	Mass.	718 19th Street
A.B. 1913 Haverford College			
Hart, Raymond Sagar	64	D. C.	31 Adams Street
Holmes, Osgood	26½	D. C.	1454 Belmont Street
Jelleff, (Mrs.) Eleanor Porter	1½	D. C.	3360 Mt. Pleasant Street
Mason, Charles Sumner	54	D. C.	1747 F Street
Negley, Marion Dearborn	1	Va.	221 South Pitt Street, Alexandria, Va.
Smithson, George Forrest	0	D. C.	1215 Harvard Street
Stoeever, Frank Wallace	19½	D. C.	2536 14th Street
Stutler, Hiram Ward	48½	W. Va.	Treasury Dept.
Weber, John Augustus	39½	Pa.	818 6th Street, N. E.

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE  
IN CIVIL ENGINEERING

Name	Credits	Legal Residence	Address
Abramson, Nathan	14½	D. C.	1001 New Jersey Avenue
Barber, Charles Wightman	53	D. C.	3428 Brown Street
Bernstein, Edgar Herbert	0	Texas	Cherrydale Rural Station, Washington, D. C.
Blakely, Charles Francis	0	Neb.	1424 Rhode Island Avenue
Bowen, Seth Thomas	38½	Ohio	War Department
Capper, Harry Walter	16	Va.	219 8th Street, S. E.
†Chamberlain, Guy C.	11½	N. Mex.	1312 Euclid Street
Clark, Halford	0	Md.	318 D Street, S. E.
Cochran, Harry Kenyon	0	Mo.	1117 Euclid Street
Cochrane, John Edward Walker	40½	D. C.	1495 Newton Street
Davis, Watson	0	D. C.	900 11th Street, S. E.
Deck, Frederick Webster	0	D. C.	1010 B Street, S. E.
Degenhardt, George Albert	49½	Pa.	1007 24th Street
*Eiker, Fillmore Wynkoop	28	Md.	6312 Connecticut Avenue
Ewing, Paul Albert	9½	D. C.	1323 Clifton Street
A.B., 1907, University of Nebraska			
Farkash, Edward	0	N. Y.	503 L Street
*French, William DeRouchbrune	0	N. J.	2224 F Street
Funkhouser, Charles Monroe	11½	N. J.	Y. M. C. A.
Gates, Harry Bowen	6	Md.	Takoma Park, D. C.
*Gilbert, Harry Chapman	0	D. C.	1101 24th Street
Graff, Tracy Underhill	0	D. C.	3504 13th Street
Hafford, Thomas Ambrose	23	N. Y.	1215 O Street
Hance, William Sloecum, Jr.	1	D. C.	2031 Park Road
Harrington, George Elliot	1	D. C.	Conduit Road, D. C.
Harsch, Erwin	52½	Ohio	1318 Maryland Ave., N. E.
Hauser, Leon Aaron	13	N. J.	2002 G Street
Haynes, Herold	0	D. C.	Library of Congress
Hinton, Raymond James	5	N. Y.	1700 15th Street
*Holmes, Don Norris	4	N. J.	1001 Irving Street, N. E.
Hunter, Clarence Sumner	0	Mass.	R. F. D. No. 4, Box 99, Washington, D. C.
Jackson, William Isaac	0	Ill.	1737 F Street
Jensen, Clarence G.	0	Neb.	1702 F Street
Johannessen, Walter	22	Tex.	2113 N Street
Kause, Robert Lincoln	60	Ohio	1905 Jackson St., N. E.
Keenan, Gerald James	9	N. Y.	2022 F Street



<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Kluge, Russell Ormond	3	D. C.	2009 2d Street
Kuehn, Herman A.	60	Ind.	411 P Street
†Kwong, Eugene F.	0	China	1741 G Street
Lynch, Charles Rust	1½	Va.	1810 N Street
Magruder, Oliver Graham	43½	D. C.	765 Quebec Street
†Marks, Joseph M.	4½	D. C.	1425 East Capitol Street
Miller, Odver Harrison	13	Okla.	2022 F Street
Mills, Robert Rourke	0	D. C.	134 R Street
†Patrick, Ermin Chambers	4	D. C.	600 23d Street
Proctor, Carlton S.	33½	N. J.	3014 R Street
Proctor, Lawrence Martin	0	D. C.	3014 R Street
*Pulliam, Jesse Henderson	4½	Miss.	1223 K Street
*Reid, James Osborne	7½	La.	1813 F Street
Rice, Samuel Willey, Jr.	1	D. C.	2217 Q Street
Richard, Charles Bailey	44½	D. C.	1860 Mintwood Place
Rose, Leonard Julian	25	D. C.	708 19th Street
Sale, Prentiss Dixon, Jr.	52	D. C.	225 8th Street, N. E.
Schmitt, Edwin Alexis	18	D. C.	Ridgewood Avenue, Chevy Chase, Md.
Teller, Leslie Wayne	1	Mich.	4012 7th Street
Varney, Forrest Franklin	10½	Wis.	Y. M. C. A.
Wadhams, Moses Allyn	38	Conn.	5402 9th Street
Walters, Marion Irven	12½	D. C.	3228 Warder Street
Watkins, Donald Newell	0	Pa.	1429 Clifton Street
Wharton, Roger Daniel	61	D. C.	3411 Oakwood Terrace

**CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
ELECTRICAL ENGINEERING**

Aman, Walter Frank	0	Md.	Mt. Rainier, Md.
*Bessling, Edward Norwood	1	D. C.	451 Massachusetts Avenue
Braggins, Seth Erwin	0	N. Y.	924 Sprint Road
Brand, Albert Arnold	52	Ind.	621 19th Street
Campbell, Arthur B.	27	D. C.	126 Rhode Island Ave., N. E.
Cheney, Frank Shaw	13	D. C.	818 Taylor Street
Duvall, Walker Marcen	15½	D. C.	1831 M Street
Fehr, John Ralph	49	Ill.	917 18th Street
LL.B., 1913, George Washington University			
†Harry C. Feldstein	0	D. C.	1314 13th Street
Fischer, Melvin Ferdinand	32	D. C.	1006 Massachusetts Ave., N. E.
Fraser, William Wright	58	Md.	4017 14th Street
A.B., 1905, New Wind- sor College; LL.B., 1911, George Wash- ington University			

Name	Credits	Legal	
		Residence	Address
Gaus, George Emil	0	N. Y.	1132 8th Street
Hall, George Thomas	3	Md.	Hyattsville, Md.
Harding, Raymond B.	0	Va.	479 G Street
Heron, Louis Mann	43½	D. C.	1440 R Street
Hodgkins, Harry Grant, Jr.	6½	Md.	1324 Monroe Street
Kalupy, Harry Harold	2	La.	1125 10th Street
LL.B., M.P.L., 1914			
Georgetown University			
Kennedy, Charles Bayard	19	D. C.	1304 13th Street
Klopfer, Lewis White	13	D. C.	6404 Georgia Avenue
Langellotti, Frank	0	N. Y.	2301 Wisconsin Avenue
Laughlin, Earl Cletus	70	Wis.	1437 Belmont Street
Mason, Samuel Worcester	53	D. C.	308 B Street, N. E.
Shoemaker, Fred Eugene	16	D. C.	147 T Street
Smith, McClain Barnitz	45	D. C.	658 Morris Street, N. E.
Smith, McNair	0	D. C.	1246 Irving Street

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
MECHANICAL ENGINEERING

Ball, Homer William	10	D. C.	Cherrydale Rural Station, Washington, D. C.
Basseches, Jacob Thomas	2	N. Y.	1307 K Street
Bradley, Maurice Byron	11	D. C.	60 S Street
Brookes, William Brocken- brough Newton	6½	D. C.	1525 Corcoran Street
Cleary, Charles Joseph	20	Mass.	1437 Belmont Street
*Crews, Clarence M.	0	Md.	621 19th Street
†Cross, Frederick Sylvester	7½	W. Va.	2024 F Street
Cruickshanks, Benjamin Carpenter	14	D. C.	2241 Douglas Street, N. E.
Degnan, George A.	20	Pa.	450 M Street
Delaney, James Leroy	7½	D. C.	600 Park Road
Ehrman, Herbert Allan	26½	Md.	1328 Fairmont Street
Hale, MacFarland	8	Iowa	2018 H Street
Hatfield, Harold DeWolfe	48	Canada	1344 Otis Place
S.B., 1910, Connecticut State College			
Hauke, Gilbert Francis	1	D. C.	605 Massachusetts Ave.
Heald, Roy Haines	19½	D. C.	1524 Caroline Place
Helman, John Phillip	0	Kan.	707 22d Street
*Holland, Eugene J.	0	Ill.	309 Pennsylvania Ave., S. E.
James, William Stubbs	39½	D. C.	1504 R Street
Johnson, Clair Villiers	0	Iowa	1532 A Street, N. E.



## STUDENTS

<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Kotterman, Chester Arthur	1	D. C.	2611 Adams Mill Road
McClure, Clinton Inness	61	Kan.	2110 H Street
Martin, Frank Whitecher	8½	D. C.	60 M Street
Myers, Charles Mellis	1	D. C.	649 Maryland Ave., N. E.
Nickles, Edward Belmer	43½	D. C.	122 Florida Ave.
Norris, Howard Dutton	0	D. C.	2121 O Street
Perry, Oliver Hazard	4	D. C.	203 Seaton Place, N. E.
Petrie, John Shontz	13	D. C.	2815 6th Street, N. E.
Preston, Elliott Donald	0	Neb.	1438 Ames Place
Saunders, Randall Nash	12	D. C.	1534 6th Street
Shannon, Maurice Deneale	1	D. C.	1316 15th Street
Siggers, Philip Edward	16	D. C.	306 F Street
Strawn, Floyd L.	2	D. C.	Bryant Pumping Station, Water Dept., D. C.
Wiley, Norman Clark	57½	Mass.	1905 G Street
Wilson, Joseph Henry	22½	Pa.	1436 W Street, Apt. 31
Woodward, Francis Albert	31½	D. C.	751 Quebec Street

## SPECIAL

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Almon, Harry Foster	Mont.	719 11th Street
Ambrosi, Hugo Faust	D. C.	647 G Street, S. E.
*Ashby, William Wallace	Iowa	1810 N Street
Baer, Alois	Md.	1328 Fairmont Street
*Bean, Tarleton S.	D. C.	312 Randolph Place, N. E.
†Benson, Charles G.	Ga.	341 Bryant Street
Bergstein, Isador	N. Y.	Bureau of Standards
*Berry, Frederick Brooke	D. C.	Navy Department
*Bittner, Gustave Emil	D. C.	2014 2d Street
Boesch, Harry Luther	D. C.	616 E Street, N. E.
LL.B., 1908, George Wash- ington University		
Boyer, Harold Stuart	Md.	150 Rhode Island Avenue
Bulger, Richard Spero	D. C.	1138 12th Street
Burch, James Wood	D. C.	2000 H Street
*Busch, Ralph S.	Kan.	1845 Calvert Street
Campfield, Allen Bailey	D. C.	3317 O Street
Cash, William Bogart	N. C.	2516 17th Street
Cassedy, Edwin Gray	Colo.	214 So. Carolina Av., S. E.
Chapman, John Holbrook	D. C.	3323 Wisconsin Avenue
Collier, Eugene Francis		
Crowley	D. C.	1417 Harvard Street
Conlon, Thomas Aloysius	D. C.	3512 O Street

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
*Craig, Edward Eugene	Mass.	The Olympia, 14th and Euclid Streets
Cummings, Homer H.	D. C.	608 North Carolina Ave.
*DeLong, Forrest Allen	Pa.	607 8th Street, N. E.
*Disney, Edward Irvin	D. C.	128 Tennessee Ave., N. E.
†Doleman, Robert Elmer	D. C.	2822 Georgia Avenue
Doyle, Roscoe Clifford	D. C.	2022 F Street
Duckett, Allen Bowie	Md.	Dept. of Agriculture
†Duvall, Albert Malcolm	D. C.	1827 M Street
*Edinburg, Frank Peter	Cal.	618 I Street
Eliason, Raymond Orlando	D. C.	214 4th Street, S. E.
Ellis, Richard Williamson	D. C.	2934 Newark Street
Ervin, Guy	Iowa	537 Shepherd Street
Farnham, Arthur Blanchard	D. C.	1774 U Street
Freemire, Leroy H.	N. Y.	2142 I Street
*Gadsby, Arthur Norton	Mass.	1437 Belmont Street
A.B., 1908, Williams College		
Galbraith, Robert Karl	D. C.	1735 1st Street
GooOn, Clement Rowland	Hawaii	5 Grant Place
Harbour, Hadley Seymour	D. C.	1016 F Street, N. E.
Harden, Fred Geer	Neb.	132 3rd Street, S. E.
A.B., 1907, A.M., 1908, Uni- versity of Nebraska		
Harris, Beverly Humphreys	D. C.	1943 Biltmore Street
Henrickson, Henry Brenton	R. I.	1350 Kenyon Street
Hobson, Melvin Clay	D. C.	19 W Street
Johnson, Walter Morgan	D. C.	The Portsmouth
*Jones, Christopher Lloyd	D. C.	150 Seaton Place
Jones, Roland Kingsbury	D. C.	1133 Euclid Street
Kaiser, Edward J.	D. C.	331 13th Street, S. E.
Karrick, James Lawson, Jr.	D. C.	2120 Bancroft Place
†Klee, Karl Raymond	D. C.	3224 R Street
Knotts, Morgan Kingory	W. Va.	121 5th Street, N. E.
Lasier, Emery Liebschutz	D. C.	1427 Girard Street
A.B., 1911, George Wash- ington University		
Little, Robert Ethan	La.	1736 G Street
Lynch, George Clifton	D. C.	4128 8th Street
McKoy, Henry Bacon	N. C.	1914 H Street
Miller, Lawrence Arnold Gale	Mass.	Division 41. Patent Office
A.B., 1908, Harvard Univer- sity; LL.B., 1913, George Washington University		



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Morris, Guy Turner M.E., 1912, Cornell University	Mo.	2943 Tilden Street
Murray, Thomas Patrick	Mass.	1455 Chapin Street
Nickerson, Arthur Rogers	D. C.	26 Bryant Street
*Noel, Fabian Peter	Md.	416 Seward Square, S. E.
Noonan, Thomas William	N. Y.	1236 Euclid Street
Offutt, Magruder Willson, Jr.	Md.	Bethesda, Md.
*O'Rourke, Francis Joseph	Mass.	1524 U Street
Passmore, Senes Breton	Pa.	121 5th Street, N. E.
Rager, Clara Anna	Md.	812 21st Street
Reed, Frank Simon	D. C.	604 F Street, N. E.
Seip, Albert Birney	D. C.	2622 13th Street
Shipley, Joseph Wilson	Md.	Hyattsville, Md.
Siebel, William Lawrence	D. C.	1727 North Capitol Street
*Smith, Charles Henry	Iowa	1120 Rhode Island Ave.
†Smith, Marshall J.	D. C.	1924 17th Street
*Smith, Raymond Chester	D. C.	1002 B Street, S. W.
*Snyder, Walter Douglas	Wis.	2022 F Street
Starr, Arthur Price	N. Y.	120 Randolph Place
Stroop, David Vincent	Md.	1729 New York Avenue
Sullivan, Howard Cheseldine	Md.	Box 321, Mt. Rainier, Md.
Thomas, Earle Van Buren	D. C.	437 Rhode Island Avenue
Thorne, Maurice Anson	Md.	Bureau of Standards
Townsend, Karl Hess	Texas	1611 Lincoln Ave., N. E.
Weeks, Cecil Herbert	D. C.	2114 1st Street
†Whitcraft, Ellis E.	D. C.	314 Maryland Ave., N. E.
Willits, George Hughes	Pa.	122 Baltimore Avenue, Takoma Park

## TEACHERS COLLEGE

CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS AND  
BACHELOR'S DIPLOMA IN EDUCATION

<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Allwine, Elsie May	27	D. C.	513 12th Street
Anderson, Juanita Townsend	24	Ind.	802 21st Place, Apt. 1
Barnes, Marjorie	32	D. C.	142 11th Street, N. E.
Bashford, Margaret Josepha	28	Va.	R. F. D. No. 2 Alexandria, Va.
†Bell, (Mrs.) Lee Campbell	0	D. C.	5305 Connecticut Avenue
Beller, Elizabeth Caroline	36	D. C.	235 1st Street, N. E.

Name	Credits	Legal		Address
		Residence		
Beller, Sadie White	30	D. C.		235 1st Street, N. E.
*Biret, Elsie	24	D. C.		3922 12th Street, N. E.
Bontz, Mary Ellen	34	Va.		422 North Alfred St., Alexandria, Va.
Brown, Mary	52	D. C.		2464 Ontario Road
Browne, Ethel	30	D. C.		Kenilworth, D. C.
Cam, Helen Elizabeth	45	D. C.		58 T Street
Castell, Nannette Roosa	0	D. C.		1337 R Street
Clark, Isabell	24	D. C.		3412 13th Street
Connell, Lillie Marie	24	D. C.		519 Stanton Place
Costen, Alta	24	Md.		East Falls Church, Va.
Craig, Carola Spencer	30	Pa.		103 R Street, N. E.
A.B. 1913 Powhatan College				
Dent, Mary Catherine	31	D. C.		3009 P Street
*Douglas, Irene Roberts	24	D. C.		1403 South Carolina Ave., S. E.
Dulac, (Mrs.) Hilda North	28	D. C.		2807 14th Street
Dyer, Juliet Elizabeth	24	D. C.		1015 Otis Place
Eddingfield, Ina Dean	48	D. C.		1440 Harvard Street
Egbert, Freda Dorothy	55½	D. C.		1739 1st Street
Eldridge, Hattie Dayton	41	N. C.		2017 Park Road
Ellenbogen, Lewis Katzen	6	N. Y.		1501 11th Street
Emory, Mary Annette	24	D. C.		811 6th Street, N. E.
English, Maude Franzoni	29	D. C.		1926 Biltmore Street
Espey, Emolyn Carpenter	26	D. C.		122 11th Street, N. E.
Ficklin, Kroes	0	Va.		714 Duke Street, Alexandria, Va.
*Frank, Mary Woods	24½	D. C.		1003 Otis Place
*Gantley, Helen Gertrude	4½	D. C.		2425 18th Street
Garrels, Agnes Fredericka	24	D. C.		1110 Fairmont Street
Gessford, Margaret	27	D. C.		1351 Irving Street
Gibbs, Kate Maria	5	Mass.		3703 14th Street
Gladden, Alton Arnold	46	Md.		1636 15th Street
*Goodwin, Edith May	24	D. C.		108 Bates Street
Greenwood, Mary Maud	27½	D. C.		806 Maryland Ave., N. E.
Gronna, Amy Beatrice	32	N. D.		The St. Regis
Hart, Louise Goff	39½	W. Va.		515 B Street, N. E.
Heflebower, Ethel	24	D. C.		1025 8th Street
Helgesen, Gladys Lenore	12	N. D.		1921 19th Street
Hellman, Dorothy	39	Wyo.		2804 Cathedral Avenue
Hobgood, Katherine White	20	La.		3631 10th Street
Hughes, Mildred May	30	D. C.		232 6th Street, S. E.
Irvine, Laura Winona	24	D. C.		1206 Fairmont Street
Johnson, Virginia Head	28	D. C.		The Gladstone



<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Kalb, Dorothy Buhrman	45	D. C.	1535 T Street
Kause, Selma	26	Ohio	1905 Jackson Street, N. E.
Kayser, Elmer Louis	0	D. C.	3129 O Street
Keegan, Lucetta	11	Ohio	1407 Belmont Street
Kerby, Florence Marcellina	47½	D. C.	2606 L Street
*Kipp, (Mrs.) Annette Smith	0	D. C.	525 T Street
Kirby, Virginia	30	D. C.	1347 Parkwood Place
*Knickerbocker, Hope	24	D. C.	623 N Street
Knowles, Margaret Morton	30½	D. C.	132 R Street, N. E.
Kothe, Charles	45	N. Y.	807 18th Street
Ladson, Gertrude Louise	24	D. C.	2812 13th Street
Lind, Ida May	40	D. C.	4516 14th Street
Lockwood, Jane Girvan	41½	D. C.	Box 227, R. F. D. 4, Washington, D. C.
Lockwood, Margaret Mary	41½	D. C.	Box 227, R. F. D. 4, Washington, D. C.
McCarty, Cora	24	D. C.	912 19th Street
*McColm, Anna May	35½	Iowa	1483 Columbia Road
MacFarlane, Nellie Rae	59	D. C.	2005 G Street
*Mason, Josephine Dwight	54½	D. C.	1348 Euclid Street
Milliken, Florence Ethel	53	D. C.	463 P Street
Moore, Margaret	24	D. C.	502 A Street, S. E.
*Moorman, Fannie Amanda	0	Va.	428½ M Street
Mueden, Pauline	3	D. C.	The Portner
Mulford, (Mrs.) Bessie Boyd	30	D. C.	3014 Dent Place
Murray, Mary Frances	24	D. C.	433 13th Street, S. E.
Myrth, Isabel Edna	24	D. C.	1908 2d Street, N. E.
*Nash, Edith Palmer	24	D. C.	1331 8th Street
Nevins, Ruby	24	D. C.	1421 Columbia Road
Newcombe, Mary Anne	24	D. C.	1133 Park Place, N.E.
O'Hara, Elizabeth	24	D. C.	135 S Street
*Owen, (Mrs.) Fredericka Denman	24	D. C.	3413 13th Street
Padgett, Mary Anna	0	D. C.	1757 U Street
Patrick, (Mrs.) Nellie Freeland	43	Mo.	1814 G Street
Patrick, Wellington	47	Mo.	1814 G Street
Patterson, Ida Belle	24	Va.	2115 California Avenue
A.B., 1903, Queen's College			
Patterson, Ruth Capelle	55	D. C.	2016 15th Street
Payne, Lilly May	24	Va.	Ballston, Va.
Peairs, Ruth	0	Kan.	3033 16th Street

Name	Credits	Legal	
		Residence	Address
Pearson, Martha Blanche	15	D. C.	1829 Monroe Street
Pinnock, Mary George	15	Ohio	720 A Street, N. E.
Prince, Ethel Thomas	18	D. C.	161, The Portner
Pywell, Laura Virginia	30	D. C.	72 V Street
*†Reeve, Eleanor	24	Md.	103 R Street, N. E.
Reeve, Felicia Ann	39	D. C.	1626 19th Street
Reeve, Laura Washburn	28	D. C.	1626 19th Street
Richards, Ivah	17	D. C.	1511 13th Street
Robey, Mabel Alidas	43	D. C.	1813 North Capitol Street
Rodgers, Bertha	32½	D. C.	1445 Massachusetts Ave.
Rose, Mary Estelle	21	D. C.	2963 Tilden Street
Sanders, Elsie	56½	D. C.	1515 Park Road
*Schoenborn, Theresa	24	D. C.	1359 Harvard Street
Fredericka			
Sornberger, Dorothy	0	D. C.	908 Sheridan Street
Gertrude			
Stallings, Mildred Evelyn	24	D. C.	1200 North Capitol Street
Steger, Mary Evelyn	13	D. C.	1906 Florida Avenue
Stewart, Elizabeth Tabb	30	Va.	East Falls Church, Va.
†Stewart, Mary Mabel	54	D. C.	309 Maryland Avenue, N. E.
A. B., 1914, Grove City			
College			
Summy, Ethel	38½	D. C.	1623 R Street
Thomas, Mildred Barker	24	D. C.	3120 Mt. Pleasant Street
Thompson, Charles Newton	37	D. C.	811 I Street
Thompson, Frank Elsie	0	Ohio	516 2d Street
Thönssen, Ruby Ella	24	D. C.	315 C Street, S.E.
Tiffany, Emma Ruth	47	D. C.	3409 Brown Street
Trainor, Ernestine	0	Md.	Woodside, Md.
True, Marion	40	D. C.	1320 Fairmont Street
Tyndall, Mary Siphora	43	D. C.	1318 I Street
Underwood, Mary Louise	55	D. C.	707 East Capitol Street
Van Doren, Emma May	46	D. C.	629 Massachusetts Ave., N. E.
Walker, Alberta	58	D. C.	1634 S Street
Wanstall, Grace	28	D. C.	1706 F Street
Waters, Martha Dyson	0	D. C.	1523 31st Street
Weber, Elizabeth Anna	44	N. Y.	Berwyn Heights, Md.
Weedon, Caroline Elizabeth	15	D. C.	1829 Monroe Street
Whitford, Bessie	32	D. C.	3369 18th Street
Willits, Margaret Sharpless	35	D. C.	Takoma Park
*Willson, Winifred	24	D. C.	1752 Church Street
*Wimer, Martha E.	29	D. C.	The Imperial
Woodward, Esther			
Rittenhouse	38	D. C.	125 New York Avenue



## STUDENTS

<i>Name</i>	<i>Credits</i>	<i>Legal Residence</i>	<i>Address</i>
Worster, Louise	55	D. C.	942 B Street, S. W.
Yoder, Bertha Alice	30½	D. C.	1225 Euclid Street
Yoder, Bessie Lee	54	D. C.	1225 Euclid Street

## CANDIDATES FOR THE BACHELOR'S DIPLOMA IN EDUCATION

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Kuhns, Winifred Mary	Md.	Berwyn, Md.
†Pope, Ruth Vesta A.B., 1914, George Washington University	D. C.	1340 Meriden Place

## SPECIAL

Browne, Gertrude Veronica A.B., 1914, George Washington University	D. C.	1344 Girard Street
Elmore, (Mrs.) Mary DeFord	D. C.	3102 Mt. Pleasant Street
*Ferguson, Elizabeth A.B., 1914, George Washington University	D. C.	1239 Kenyon Street
Frizzell, Genevieve Margaret A.B., 1914, George Washing- ton University	D. C.	241 8th Street, N. E.
Huff, (Mrs.) Daisie Ione S.B., 1902, Valparaiso Uni- versity; A.B., 1913, George Washington University	Ill.	2134 F Street
Jessup, Mary Reynale S.B., 1912, Columbia Uni- versity	D. C.	900 East Capitol Street
†Lawson, Margaret Lucile A.B., 1914, George Washing- ton University	D. C.	206 13th Street, N. E.
Lee, (Mrs.) Charlotte White	D. C.	1741 Lanier Place
Scott, Mabel Lavinia A.B., 1907; A.M., 1914, George Washington University	D. C.	1465 Hobart Street
Summy, Katherine Strong A.B., 1912, George Washing- ton University	D. C.	1831 California Street
Van Doren, Charlotte Augusta Whiteley, (Mrs.) Mary Norsworthy	D. C.	647 East Capitol Street
†Wilson, Emma	Md.	1306 18th Street
Zinssmeister, Grace Mary	Md. D. C.	Silver Springs, Md. 1364 Girard Street

# SUMMARY

245

## SUMMARY

### Graduate Students

Students in attendance.....	6
Candidates for D.C.L. degree.....	1
Candidates for C.E. degree.....	6
Candidates for E.E. degree.....	4
Candidates for M.E. degree.....	2
Candidates for S.M. degree.....	31
Candidates for A.M. degree.....	21
Candidates for Ph.D. degree.....	26

97

Duplicates..... 1

96

### Undergraduate Students

#### Columbia College

Candidates for A.B. degree.....	243
Candidates for B.S. in Chemistry degree.....	62
Candidates for B.S. in Medicine degree.....	12
Pre-Medical.....	23
Special.....	254

594

#### College of Engineering

Candidates for B.S. in Arch. degree.....	20
Candidates for B.S. in C.E. degree.....	59
Candidates for B.S. in E.E. degree.....	25
Candidates for B.S. in M.E. degree.....	35
Special.....	80

219

#### Teachers College

Candidates for A.B. and Teacher's Diploma.....	125
Candidates for Teacher's Diploma.....	2
Special.....	14

141

1050

Duplicates..... 3

1047



## LAW SCHOOL

Students who are college graduates are indicated by the degree, year in which it was received and name of the college conferring it.

Students who have had only part of a college course in addition to the necessary preparatory education are indicated by the names of the colleges attended.

## First Year Class

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Albrecht, George Moritz E.E., 1906, University of Minnesota	Minn.	Patent Office
Alexander, Walter Richardson University of Missouri	Mo.	1110 Rhode Island Avenue
†Anderson, Aeryl Blaine	Ill.	1130 Park Road
†Andersen, Henry O. A.B., 1910, Southern Minne- sota Normal College	Minn.	205 C Street, N. E.
Ash, Robert	N. Y.	Wardman Court
Bacon, George Hearne A.B., 1910, Delaware College	Del.	Y. M. C. A.
Baldwin, Philip Lesuer Beloit College, Wisconsin.	D. C.	135 A Street, N. E.
Banks, Andrew Jackson	Ohio	712 I Street, N. E.
Baskin, Maurice A.B., 1911, Harvard Uni- versity	D. C.	729 Upshur Street
Beckett, Leighton D. University of Minnesota; George Washington Uni- versity	Iowa	The St. Regis
Benton, Ralph Webster George Washington Univer- sity	D. C.	462 O Street
Borden, Frank H. University of Pennsylvania	Pa.	Champlain Apartments
Bostroem, August B.S., 1903, College of the City of New York; M.E., 1906, Cornell University	N. Y.	1211 Clifton Street
Boteler, William Shook	D. C.	1633 Hobart Street
*Brooks, Grace Elisabeth Platt	Conn.	2106 F Street
Brooks, Joseph Lester	D. C.	3319 17th Street
Broome, Edwin Warfield	Md.	Gaithersburg, Md.
*Brown, Earle L.	Iowa	707 1st Street

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
*Brown, Theron S. A.B., 1913, University of South Dakota	S. D.	Senate Office Building
Brown, Wilmarth	D. C.	The Olympia
Bryant, James G.	Mich.	1100 Vermont Avenue
Bull, Frank Arthur B.F., 1914, Biltmore Forest School	Maine	203 A Street, S. E.
Burgess, James Irving George Washington University	D. C.	403 11th Street, S. E.
Burton, George John	N. Y.	449 Blair Road, Takoma Park
Busch, Howard G.	Mo.	219 East Capitol Street
†Bushong, William Collier	Va.	616 East Capitol Street
Byrne, Frank D.	Mass.	800 21st Street
*Campbell, Max Durham	Md.	1810 N Street
Cannon, David Hoagland University of Utah	Utah	Woodworth Apartments
Castimore, Clarence A.B., 1912, Colgate University	N. Y.	508 East Capitol Street
Chamberlain, Ernest R. Washburn College; George Washington University	Kan.	2017 H Street
*Clark, Frank Rinker B.S., 1910, University of Utah	Utah	3220 17th Street
Collins, Philip LeRoy	D. C.	44 C Street, N. E.
Connor, Daniel Allman George Washington University	D. C.	130 D Street, S. E.
Cowing, Kemper F. Indiana University	Ind.	1737 F Street
Cox, William Floyd State University of Kentucky	Va.	1736 G Street
*Crutchfield, Inman Payne Washington and Lee Uni- versity	Mont.	1102 L Street
Cunningham, Frederick Wright	La.	1810 N Street
†Cunningham, John Jay	N. Y.	The Rochambeau
*Davis, Joe N.	Tex.	708 19th Street
†Davis, John Wesley B.S., 1914, Iowa Wesleyan College	Iowa	2112 G Street
de Agüero, Manuel	Cuba	214 A Street, S. E.
Demaree, Harry Stambaugh Lehigh University	Pa.	Beacon Apartments



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
†Diamante, Dionisio P. University of St. Augustine, P. I.	P. I.	The Cordova
*Dicke, Allen A. University of Michigan	D. C.	The Birmingham
*Du Bois, Joseph Addison	D. C.	1421 Chapin Street
Earll, Donald Montgomery George Washington University	Md.	The Columbia
Ershler, Philip	N. Y.	1314 11th Street
Fleming, John Paton A.B., 1913, George Washing- ton University	Va.	1861 Wyoming Avenue
Flickinger, Samuel John	N. J.	Hotel Lincoln
Floyd Henry Bussey, Phar.D., 1908, George Wash- ington University	Ark.	1229 12th Street
Ford, Chin Ming	China	615 19th Street
Foster, LeRoy B. Ph.C., 1909, Ohio State Uni- versity	Ohio	1700 15th Street
Frear, Philip A. University of Wisconsin	Wis.	House Office Building
*French, Howell Price B.S. in Chem., 1914, Pennsylv- vania Military College	D. C.	1430 Rhode Island Avenue
Friedland, Karl Benjamin	Utah	1430 Rhode Island Avenue
Getchell, Leslie Wyman	Mass.	1400 L Street
*Graham, Leslie Donald	Conn.	1402 L Street
Groome, William V. Washington and Lee Univer- sity	Va.	911 13th Street
Haines, George Louis	D. C.	1340 Rhode Island Avenue
Hall, Joseph Farland A.B., 1912, William and Mary College	Va.	Episcopal High School, Alexandria, Va.
Hardman, Frederick James B.S. in M.E., 1910, Case School of Applied Sciences	D. C.	1423 Newton Street
†Hardy, Rufus, Jr. Austin College	Tex.	1414 16th Street
Heine, Henry William George Washington University	D. C.	502 Rhode Island Avenue
†Heist, Luther H.	Pa.	708 19th Street
Hillard, Barrymore Nugent Leland Stanford University	Wash.	1810 N Street

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
*Hillje, Harry	Iowa	907 Westminster Street
Howell, Joseph M. E.M., 1908, Columbia Uni- versity	Utah	1882 Columbia Road
†Hutton, Clark Holman Central University of Ken- tucky	Tenn.	
Jeffrey, Earl Munro A.B., 1914, George Washing- ton University	D. C.	3124 Wisconsin Avenue
Jeffries, John M. George Washington Univer- sity	D. C.	1800 New Hampshire Ave.
Jewell, Jeanette	D. C.	1485 Columbia Road
†Johannesen, Oscar A. Agricultural College of Utah	Idaho	The Sorrento
Jones, David Clyde A.B., 1910, Hamilton College	N. Y.	617 C Street, N. E.
Keegan, Jay	Okla.	1770 Columbia Road
†Krafft, Walter E.	Ill.	708 22nd Street
Krentzlin, Leopold L. B.S. in Econ., 1914, Univer- sity of Pennsylvania	S. C.	The Congressional
†Kubel, Herbert Graham	D. C.	1000 East Capitol Street
*†Lavadia, Pedro Celestino University of the Philip- pines, University of Illi- nois, University of Chicago	P. I.	519 Massachusetts Avenue
Lauck, Lee G.	W. Va.	1445 Massachusetts Ave.
Le Duc, Harold	D. C.	1747 Corcoran Street
Leonard, Merle Clifford	Mass.	1822 H Street
Lind, Charles A. Valparaiso University	Minn.	1420 R Street
Loebel, Stephanie	Roumania	1304 L Street
Loeffler, Frank Weller	D. C.	3410 13th Street
Lukkason, Almer Oliver	Minn.	Y. M. C. A.
McCoy, L. Myrtle Hastings College	Col.	815 Connecticut Avenue
*McGuire, James Charles A.B., 1896, Georgetown Col- lege	D. C.	3525 13th Street
McKinney, Stephen Booth Graduate, 1907, U. S. Naval Academy	Tenn.	Army and Navy Club



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Marshall, Charles Orr University of Omaha	D. C.	709 Shepherd Street
†Meade, James Joseph	Mass.	Headquarters U. S. Marine Corps
Mielke, Frederick W.	Idaho	813 12th Street
Miller, William Cammock A.B., 1911, Yale University	D. C.	911 H Street
Moore, Joseph Francis	Md.	Room 309, District Bldg.
Morris, Logan A.B., 1910, University of Utah	Utah	1829 F Street
Nebb, Frederick W. B.S., 1913, New York Univer- sity	N. Y.	Y. M. C. A.
Nichol, James Wallace George Washington Univer- sity	Mich.	614 Maryland Ave., N. E.
Notz, William Frederick A.B., 1897, Northwestern College, Watertown, Wis- consin; A.M., 1904, Ph.D., 1906, University of Wis- consin	Wis.	Y. M. C. A.
Osoinach, John A Mississippi State University	Miss.	226 11th Street, S. W.
Osoinach, Ruth Campbell	Miss.	226 11th Street, S. W.
†Parish, Anthony M. Notre Dame University	Ill.	130 R Street, N. E.
Parker, Arthur S.	D. C.	860 Columbia Road
*Parker, Gabe Edward A.B., 1899, Henry Kendall College	Okla.	4412 14th Street
Parker, Morris	Mass.	2621 Sherman Avenue
Parsons, Charles Edward Dartmouth College	D. C.	210 1st Street, S. E.
Patterson, Robert Wilson, 3d	D. C.	1309 Kenyon Street
Pendell, L. Elmer	N. Y.	712 20th Street
†Peterson, Alvin Ray University of Illinois	Ill.	Bureau of Corporations
Plugge, Campbell Hermann	D. C.	1310 13th Street
Pratt, James Lyman University of Pennsylvania	D. C.	2328 19th Street
Rafter, Case Broderick C.E., 1913, Lehigh University	D. C.	1860 Columbia Road

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
*Ramsdell, Paul Charles George Washington Univer- sity	D. C.	1945 Calvert Street
Raymond, Norman Ticknor George Washington Univer- sity	D. C.	1406 Allison Street
Reavis, Newton C. Vanderbilt University	Tenn.	1810 N Street
Rines, David A.B., 1907, Harvard Univer- sity	Mass.	Patent Office
Sharp, R. Lawrence	Kan.	1407 North Carolina Ave., N. E.
Shaw, Charles Jesse	Iowa	1644 3d Street
†Shepard, Donald D'Arey	D. C.	429 Massachusetts Avenue
*Singer, Edward Albert	Ill.	619 Lexington Place, N. E.
Smith, Andrew Adelbert B.S. in C.E., 1908, University of Wisconsin	Wis.	1324 Euclid Street
*Smith, John Chandler	Pa.	Y. M. C. A.
*Smith, Talma L. George Washington Univer- sity	Tex.	Department of Commerce
Sowders, Harold George	Ohio	House Office Building
Spare, Romeyn Andrew A.B., 1908, Harvard Univer- sity	Mass.	Patent Office
Spaulding, Thomas Marshall A.B., 1905, University of Michigan; Graduate 1905 from U. S. Military Acad- emy	Mich.	1609 22d Street
Staton, Adolphus Graduate 1902, U. S. Naval Academy	N. C.	Wyoming Apartments
Steele, Benjamin Porter George Washington Univer- sity	D. C.	38 Seaton Place
Sterling, Ralph J. George Washington Univer- sity	Ohio	Y. M. C. A.
Stovall, Bates Mitchell	D. C.	The Cecile
Stuwe, J. Daniel B.S. in C.E., 1912, George Washington University	Minn.	3913 Kansas Avenue



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Taylor, Harry S.	Ind.	912 Massachusetts Ave.
Taylor, Perry E.	Texas	606 22d Street
†Tefft, Ivan Douglass Dartmouth College	Ill.	The Burlington
Tonne, William H.	Minn.	612 I Street, N. E.
†Towner, Horace Cole State University of Iowa	Iowa	The Mendota
Turner, Van Arsdale Brown	Del.	100 B Street, N. E.
Van der Veer, Norman Reeve Graduate, 1908, U. S. Naval Academy; Princeton Uni- versity	D. C.	1842 15th Street
Van Moss, Bert	Okla.	915 20th Street
*Ventresca, Francesco Ph.B., 1909, Ph.M., 1910, Chicago University	D. C.	2111 18th Street
Volstead, Laura Ellen	D. C.	The Brighton
Ware, Kennard Nottingham University of Virginia	W. Va.	214 A Street, S. E.
Webster, Hugh B.S. in Agr., 1912, Iowa State College	D. C.	1810 N Street
*Welshimer, Robert Ross Graduate 1908, U. S. Naval Academy; University of Illinois	D. C.	War Department
West, David A	Utah	Plymouth Apartment
*White, Gus Campbell Vanderbilt University	Ariz.	3219 11th Street
Witter, Lawrie L.	N. Y.	Patent Office
Wolfe, Leonard B. University of Colorado	Kan.	Y. M. C. A.

## Second Year

Allen, James Thatcher	D. C.	1833 U Street
Atherton, Wallace Irving University of Pennsylvania	Wash.	1100 Vermont Avenue
Baker, Lawrence Adams A.B., 1913, Princeton Uni- versity	D. C.	3141 Highland Avenue
Bardwell, Halsey Warren Ph.B., 1910, Ewing College	Vt.	11th and N Streets

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Batt, Joseph Harper A.B., 1914, George Washing- ton University	Del.	1717 S Street
Baxter, Chester C. S.B., 1908, Ohio Northern University	Ohio	1440 Meridian Place
Beadle, John Bookwalter George Washington Univer- sity	D. C.	312 A Street, S. E.
Bird, Branch Center College, Kentucky	Ky.	2011 Columbia Road
Breuninger, Lewis T. A.B., 1913, Johns Hopkins University	D. C.	3208 19th Street
Brown, Alvin McCreary A.B., 1914, George Washing- ton University	Md.	Berwyn, Md.
†Brown, Harold Leahy	Iowa	1700 15th Street
Bryant, Niles, Jr.	Ill.	1100 Vermont Avenue
Bull, Charles Roy A.B., 1913, Bowdoin College	Maine	203 A Street, S. E.
Burchfield, William Eden	D. C.	4429 Georgia Avenue
Burrows, Tremaine Kellogg A.B., 1897, University of Ne- braska	N. Y.	6902 5th Street
Chamberlin, Pierre Audrey George Washington Univer- sity	D. C.	1323 M Street
Clark, Marion A.B., 1901, A.M., 1904, West- ern Maryland University	Md.	1409 15th Street
Deal, Roy Linney A.B., 1911, George Washing- ton University	Va.	745 Park Road
*Desha, John Rollins A.B., 1912, Harvard Univer- sity	Hawaii	283 House Office Building
Desha, Stephen Langhern, Jr.	Hawaii	283 House Office Building
Dix, Howard Whedon M.E., 1911, Cornell Univer- sity	N. Y.	1236 Euclid Street
Domer, Harry Tennyson A.B., 1900; A.M., 1903, George Washington University	D. C.	727 15th Street



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Draeger, Henry Herman	S. D.	1810 N Street
Eudaley, Glenn Robert	Ky.	Y. M. C. A.
Farmer, Max D.	D. C.	18 Todd Place, N. E.
B.S., 1910, Michigan Agricultural College		
Fisher, Martin Tucker	D. C.	1802 Wyoming Avenue
B.S., 1913, Harvard University		
Francis, Marshall H.	Ohio	2011 Columbia Road
Western Reserve University		
†Galloway, Andrew Barritt	Okla.	Y. M. C. A.
Geekie, George	Mass.	Y. M. C. A.
Gregg, Will Reeves	Tex.	House Office Building
A.B., 1913, Austin College		
Gross, Robert Frank	Cal.	The Woodward
Graduate, 1907, U. S. Naval Academy		
Haines, Elvans Diehl	D. C.	1340 R Street
George Washington University		
Hamack, Frank Hartmond, Jr.	Minn.	Y. M. C. A.
Hastings, William Riley	Tenn.	1006 B Street, S. W.
Haymes, Lonnie Slavens	Mo.	119 2d Street, N. E.
B.Pe., 1913, Springfield, Missouri, State Normal School		
Henneman, Harry E.	Wis.	1736 G Street
Hodgkins, Howard Wilkinson	D. C.	Patent Office
B.S. in C.E., 1913, George Washington University		
Hollingsworth, Roger P.	D. C.	2815 14th Street
Hoover, John Edgar	D. C.	413 Seward Square, S. E.
Huff, John James	Iowa	1736 G Street
A.B., 1909, State University of Iowa		
Humphrey, Paul N.	Neb.	Indian Affairs Committee House of Representatives
Hunt, Edwin Brendel	D. C.	4318 14th Street
Hunter, Rosser Lee, Jr.	D. C.	312 Seaton Place, N. E.
George Washington University		
Hutchinson, Lewis Orrin	Conn.	604 Gresham Place
A.B., 1910, Yale University.		
Jackson, Thomas Jefferson	Tenn.	1810 N Street
LL.B., 1911, Cumberland University		

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Johnson, Wayne University of Montana	Mont.	1333 15th Street
Karrick, David Brewer A.B., 1914, Yale University	D. C.	2120 Bancroft Place
†Keats, Harold A.B., 1912, George Washing- ton University	D. C.	1810 Kalorama Road
Keith, Raymond Lyles	D. C.	214 8th Street, S. E.
Kelly, Frank J.	Wis.	2517 14th Street
Kent, Henry J. George Washington Univer- sity; Massachusetts Insti- tute of Technology	D. C.	3145 Mt. Pleasant Street
†Landers, Maurice Birdsall A.B., 1903, Hamilton College; S.B., 1905, Massachusetts Institute of Technology	N. Y.	3320 19th Street
Laporte, Ewing Mitchell	Mo.	Y. M. C. A.
Larkin, Neil Edwin	S. D.	800 10th Street
Larson, Randell J. A.B., 1913, University of North Dakota	N. D.	Y. M. C. A.
Latting, Holcomb B. University of Oklahoma	Georgia	Y. M. C. A.
Lee, Edward Brooke Princeton University	Md.	Silver Spring, Md.
Lewis, Stuart	Ill.	House Office Building
Lindsay, Alfred Briscoe A.B., 1913, George Washing- ton University	D. C.	832 Rittenhouse Street
Low, Theodore Henry Graduate U. S. Naval Acad- emy	Conn.	17th & I Streets
Mann, Joseph Ernest	N. C.	1105 H Street
Marcus, M. Manning George Washington Univer- sity	Wis.	The Valois
Marsh, Harold Newman A.B., 1909, Bowdoin College	Maine	1204 Massachusetts Ave.
Monty, Willis Ellsworth	Vt.	The Spencer
Morehouse, P. B. Cornell College, Iowa	D. C.	Indian Office
Morman, Raymond J.	Pa.	1331 Vermont Avenue
Morris, Daniel Leigh	D. C.	920 F Street
Morrow, Hewey Bascom, Jr.	Tenn.	Senate Office Building



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Myers, Paul Forest A.B., 1913, Princeton University	Pa.	1619 R Street
Neal, Kenneth Stanley B.S., 1911, Worcester Poly- technic Institute	Conn.	1769 Columbia Road
*Nickerson, Harry Arthur A.B., 1913, Rollins College	Maine	1315 K Street
Phillips, Homer	D. C.	3327 18th Street
Potter, Edward Lee A.B., 1910, Washington and Lee University	Va.	2011 Columbia Road
Pringle, Kenneth G.	Ill.	1432 M Street
Rhoads, Thomas William	Pa.	719 15th Street
Robeson, Alexander C. Dartmouth College	D. C.	1887 Monroe Street
Sanford, Claude Buren A.B., 1914, University of Tennessee	Tenn.	133 E Street
Semmes, Harry Hodges B.S., 1913, Dartmouth College	D. C.	2208 Q Street
Shaeffer, Glenn Marion	Kan.	1727 F Street, N. W.
Shaver, Homer Tipton A.B., 1913, Pacific University	Ore.	101 Maryland Ave., N. E.
Shields, John Ridley	D. C.	1018 I Street, S. E.
Silver, Charles B. Chem., 1911, Cornell Uni- versity	Md.	Patent Office
Smith, Henry Charles Albert Heidelberg University, Tif- fin, Ohio	Ohio	338 Maryland Ave., N. E.
Smith, Myron A A.B., 1913, Austin College	Tex.	House Office Building
Smith, Robert William	D. C.	1418 Allison Street
Soule, Grant W. University of Utah	Idaho	1829 F Street
Springer, Lew Wallace A.B., 1914, George Washing- ton University	N. M.	The Dresden
Tavener, Leslie James	N. Y.	60 M Street
Thomas, George Kenneth A.B., 1914, Yale University	Col.	2139 Wyoming Avenue
Thompson, Manly G.	Iowa	The Ripley
Thornton, Smith Gordon A.B., 1914, George Washing- ton University	La.	Senate Office Building

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Tibbitts, Russell D.	D. C.	3341 18th Street
Torgerson, Gustavus Maurice	Ala.	The Royaltan
Underwood, Joseph Younglove Ogden College, Kentucky	D. C.	1812 H Street
*Van Schaick, Francis Edward	N. Y.	1417 Massachusetts Ave.
Van Vleck, Arthur Nye	D. C.	Washington Loan and Trust Building
Vaughn, Orville R.	Tenn.	Y. M. C. A.
Watson, Robert Clement C.E., 1913, Lehigh University	D. C.	3301 16th Street
Wattawa, John A.B., 1913, University of Wisconsin	Wis.	2517 14th Street
Wiegand, Henry Frank B.S. in E.E., 1911, E.E., 1913, George Washington Uni- versity	D. C.	The Eckington
Wilkins, Andrew Clifford State University of Illinois	Ill.	1412 Massachusetts Ave.
Winstead, Chauncey Southerland	D. C.	1905 Park Road
Wynne, Carl Monroe A.B., 1913, University of Missouri	Mo.	1788 Columbia Road
<b>Third Year</b>		
Addison, John West A.B., 1905; A.M., 1906, Wash- ington and Lee University	Va.	The Iroquois
Anderson, Samuel Victor	Miss.	House Office Building
Austin, Charles Morrison Graduate, 1905, U. S. Naval Academy	Tenn.	The St. Regis
Baldrige, Elbert Baker A.B., 1905, Asbury College	Tenn.	Apt. 404, 2120 G Street
†Barr, John Lester A.B., 1910, Harvard Univer- sity	D. C.	The Wyoming
Bisson, Louis Alfred Worcester Polytechnic Insti- tute	Mass.	3011 Georgia Avenue*
Branch, Hilarion Noel	Mex.	Union Trust Building
Bratton, Leslie Emmett Graduate, 1907, U. S. Naval Academy	Neb.	The Parkwood



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Brown, Lee Hoxie George Washington University	D. C.	2464 Ontario Road
Burger, Alfred	Va.	Patent Office
Butterwick, Leonard L.	N. D.	2821 27th Street
Chesky, Benjamin Franklin	Conn.	1402 L Street
Church, Kortright A.B., 1912, Yale University	D. C.	1608 20th Street
Coryell, William Cornelius A.B., 1906, Ohio Wesleyan University	Ky.	1738 F Street
Cox, John Dee Southwestern University	Texas	4300 Kansas Avenue
Crews, Chalsia E.	Mo.	1913 North Capitol Street
*Elkins, Harry Scott	S. D.	1700 15th Street
Enlows, Harold Franklin	D. C.	Office of Indian Affairs
Evans, Budd	Minn.	2520 12th Street
Finckel, William Henry, Jr. George Washington University	D. C.	1625 S Street
Fitch, William Reed George Washington University	N. D.	The Maury
*Fletcher, Frederick Dix	Wash.	Y. M. C. A.
*Fraizer, Cecil C. University of Pennsylvania	Ind.	1412 Euclid Street
Frederick, Alfred Hardin	Tex.	1236 Euclid Street
Gordon, William Alexander, Jr. Washington and Lee University	Mont.	3023 Q Street
Griggs, Elmer Vernon B.S. in E.E., 1908; B.M.E., 1909, Iowa State College	Iowa	Patent Office
Grower, Charles S. B.S. in E.E., 1910, Purdue University	Ind.	3616 Newark Street
Hamner, Lunsford Loving A.B., 1913, University of Virginia	D. C.	Columbian Building
Hatch, Robert Harrison A.B., 1911, Dartmouth College	Mass.	1236 Euclid Street
Haugen, Lauritz G. University of Minnesota	Iowa	Y. M. C. A.

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Hawley, James Henry, Jr. University of Idaho	Idaho	1100 Vermont Avenue
Haycraft, Everett Fairfield	Texas	23 Todd Place, N. E.
Haymond, Fleming Clay Indiana University	Ind.	1737 F Street
Healy, Joseph Edward	Va.	1810 N Street
Hoffman, Henry B.	D. C.	1120 7th Street, N. E.
James, Joseph Pierson Leland Stanford University	Cal.	1504 R Street
*Jenks, Clayton Louis A.B., 1906, M.S., 1909, Ham- ilton College	N. Y.	3020 Macomb Street, Cleveland Park
Jensen, Julius Christian State University of Iowa	Iowa	Y. M. C. A.
Johnson, Ross Holbrook George Washington Univer- sity	D. C.	1804 Belmont Road
Jones, Franklin Daniel A.B., 1910, State University of Iowa	Ill.	Bureau of Corporations
Jones, Shirley Penrose	Utah	1100 Vermont Avenue
Kelly, William F., Jr. George Washington Univer- sity	D. C.	2117 Flagler Place
Lyon, John University of Virginia	Va.	808 Colorado Building
McClellan, Edwin North University of Pennsylvania	Pa.	Folkstone Courts
McFall, John Monteith A.B., 1904, College of Charleston; A.M., 1906, Columbia University	S. C.	1311 N Street
Marechal, Greer McInnis A.B., 1908, University of Alabama	Ala.	U. S. Patent Office
Meckley, Robert Byers B.S. in E.E., 1908, Pennsyl- vania State College	Pa.	1236 Euclid Street
Miltenberger, William Fernand Georgetown College; Univer- sity of Paris	D. C.	1155 16th Street
Moore, Rawles	Ky.	1406 Perry Place
Mozingo, Harley I.	Col.	2022 F Street
*Oberlin, John Jay A.B., 1901, Washington and Lee University	Md.	U. S. Patent Office



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Oren, Paul	Pa.	Bureau of Corporations
Parmelee, Earle Linsley	Pa.	2011 Columbia Road
Pierce, James Francis	Mich.	Patent Office
B.C.E., 1912, University of Michigan		
Potter, Charles Hollister	N. C.	918 F Street
A.B., 1913, George Washing- ton University		
Read, Raymond Edgar	Mass.	Room 425, War Dept.
Reinhardt, John Joy	Neb.	1717 S Street
George Washington Univer- sity		
*Rice, Willis Ballance	N. Y.	1913 Park Road
M.E., 1907, Cornell Univer- sity		
Rogers, George C.	N. Y.	1755 Lamont Street
Rogers, James Cunningham	D. C.	3546 13th Street
University of Pittsburg		
Rush, Clifford Alvin	Kan.	2011 Columbia Road
Schenck, Arthur C.	D. C.	Bureau of Corporations
Schmied, James William	Ohio	18 Iowa Circle
B.S., 1910, Ohio Northern University		
Shaw, Randolph Codman	D. C.	1419 R Street
Washington and Lee Univer- sity		
Shepard, William Wallace	Cal.	2011 Columbia Road
†Simpson, Archer Roberts	Mass.	1810 N Street
A.B., 1911, Yale University		
†Singleton, Ogle R.	D. C.	Le Droit Building
A.B., 1908; B.L., 1910, George Washington University		
Sisisky, Samuel	Conn.	1402 L Street
Smith, Breedlove	Tex.	289 House Office Bldg.
A.B., 1912, Austin College		
Smith, Charles Watson	Pa.	423 Massachusetts Ave.
University of Chicago		
Sprague, Clarence Andrew	D. C.	3616 Newark Street
B.S., 1904, Syracuse Univer- sity		
Stanley, Elton Wood	S. D.	1767 Church Street
University of Wisconsin		
Stevens, Arthur E.	Mo.	1116 10th Street
Stewart, Elmer	D. C.	1812 Lamont Street
B.S. in Chem., 1912, George Washington University		

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Stoddard, Alfred L. University of Wisconsin	Iowa	1709 17th Street
Stone, Jesse Raymond B.Litt., 1899, University of Wisconsin	Wis.	173 Uhland Terrace, N. E.
Thompson, Alfred Wright George Washington Univer- sity	D. C.	25th & E Streets
Thurman, Samuel D. University of Utah	Utah	Interstate Commerce Com- mission
*Trudgian, Andrew Beers University of Pennsylvania	W. Va.	1343 Clifton Street
Van Wagoner, John D.	Utah	Y. M. C. A.
Walker, John Earl B.S., 1907, Kalamazoo Col- lege; B.S., 1907, University of Chicago	Mich.	1730 M Street
Whitehorn, Homer A. A.B., 1908, Nebraska Wes- leyan University	Neb.	1814 Park Road
Wilson, Laurance Norton George Washington Univer- sity	Idaho	1700 15th Street
*Woodman, William Hidden B.S., 1908, Dartmouth Col- lege	N. J.	Barrister Building
Wright, Clarence Edward Agricultural College of Utah	Utah	1100 Vermont Avenue

## MASTER OF LAWS

Black, Henry George Atkinson Massachusetts Institute of Technology; LL.B., 1914, George Washington Uni- versity	Mass.	636 Rock Creek, Church Road
*Denning, William Ira LL.B., 1913, George Wash- ington University	Ga.	4127 9th Street
Fehr, John Ralph LL.B., 1913, George Wash- ington University	Ill.	917 18th Street
†Fitch, William Reed LL.B., 1915, George Washing- ton University	N. D.	The Maury



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Gordon, Spencer A.B., 1909, Princeton University; LL.B., 1912, George Washington University	D. C.	3028 Q Street
†Hawley, Luther W. B.S., 1908, Worcester Polytechnic Institute; LL.B., 1914, George Washington University	Vt.	U. S. Patent Office
Lindsey, Theodore Clay LL.B., 1913, Ohio State University	Ohio	1220 N Street
†Munden, Ralph M.E., 1906, Cornell University; LL.B., 1913, George Washington University	Pa.	Patent Office
Musgrave, Thomas Cebern LL.B., 1905, George Washington University	D. C.	111 1st Street, N. E.
Oren, Paul LL.B., 1914, George Washington University	Pa.	Bureau of Corporations
*Schnare, Lester Llewellyn LL.B., 1913, George Washington University	Ga.	Y. M. C. A.
†Straw, Charles Alonzo, Jr. A.B., 1901, Harvard University; LL.B., 1913, George Washington University	Mass.	The Woodworth
Tanner, Marion Snow A.B., 1911, University of Utah; LL.B., 1914, George Washington University	Utah	1700 15th Street
Thomas, Julian M. University of Utah, School of Arts and Sciences; LL.B., 1913, University of Utah	Utah	The Cavendish
Wenderoth, Ernest Ferdinand B.S., in E.E., 1910, LL.B., 1914, George Washington University	N. Y.	U. S. Patent Office
†Van Wagoner, John D. LL.B., 1915, George Washington University.	Utah	Y. M. C. A.

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Willis, George-Bullock LL.B., 1914, George Washington University	Va.	Route 3, Alexandria, Va.
*Zacharias, Robert Mathias A.B., 1907, Franklin and Marshall College; LL.B., 1913, George Washington University	Pa.	U. S. Patent Office

## SPECIAL STUDENTS

Allan, Ernest Anderson	Maine	Hamilton Hotel
Anderson, Martin E. E.E., 1901, University of Minnesota; LL.B., 1914, National University Law School	Md.	U. S. Patent Office
Ashford, Philip M.	D. C.	1836 Park Road
Bates, Walter Stanley	Pa.	2001 Columbia Road
*Bauserman, Joseph Morgan, Jr.	Va.	616 East Capitol Street
Bennett, Chester Arthur	D. C.	321 Maryland Ave., N. E.
†Beatty, William Edward B.S. in E.E., 1909, Washington University	D. C.	3149 Mt. Pleasant Street
Bond, Lorenzo Owen	D. C.	1502 Meridian Place
Boughton, Solon James Case School of Applied Sciences; LL.B., 1911, National University Law School	Ohio	2943 Tilden Street
Bower, Frank Albert M.E., 1910, Cornell University; LL.B., 1913, LL.M., 1914, George Washington University	N. Y.	2605 Adams Mill Road
Brandes, Carl A.	Ohio	House Office Building
*Buck, John J.	Idaho	1400 K Street
*Callander, William Forrest LL.B., 1912, Georgetown University	Ill.	902 Webster Street
Dye, Roy Augustus LL.B., 1914, Georgetown University	Ky.	1619 R Street
Ely, Albert Love	Md.	Patent Office
†Farmer, Ralph M. LL.B., 1914, University of Oregon	Neb.	925 New York Avenue



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
†Fosselman, John Jones A.B., 1907, George Washing- ton University	Pa.	1329 Quiney Street
*Galliett, Harold H. Otterbein University, LL.B., 1912, Georgetown Univer- sity	D. C.	Y. M. C. A.
†Howland, Clarence O. M.E., 1906, Cornell University	D. C.	1361 Parkwood Place
*Jones, Carl Curtis LL.B., 1914, George Wash- ington University	Maine	U. S. Senate Library
†Kern, Charles Everett	D. C.	Riggs Building
Kesler, Charles H. B.S., 1908, Denison Univer- sity; LL.B., 1914, George- town University	Mich.	107 2d Street, N. E.
†La Follette, William Le Roy, Jr. State College of Washington	Wash.	1459 Harvard Street
†Luttrell, Nathaniel Horace	Va.	2129 Bancroft Place
McCoy, William Mitchell	D. C.	The Woodworth
Maxwell, Harry	Okla.	1432 M Street
*Miller, Frank D.	Md.	Berwyn, Md.
*Monahan, John Joseph	D. C.	Navy Department
Moore, Percy H.	D. C.	918 F Street
Moses, Herbert B. LL.B., 1913, National Uni- versity Law School	N. Y.	Patent Office
Ohsol, Johann G. A.M., 1914, Ph.D., 1914, Har- vard University	Mass.	323 Maryland Ave., N. E.
Pilcher, Dalton Jefferson	D. C.	1404 Harvard Street
Plankinton, Harry Brawer	D. C.	4513 15th Street
Ragsdale, Robert Arthur	Ark.	House Office Building
*Rich, Henry Arnold LL.B., 1914, Georgetown Uni- versity	Utah	Senate Office Building
Ryan, James A.	Minn.	Y. M. C. A.
Sadler, Clarence Theodore	Nev.	Senate Office Building
*Saito, Hiroshi Graduate, Imperial Univer- sity of Tokyo	Japan	1310 N Street
Schneider, Benjamin B. LL.B., 1914, National Uni- versity Law School	D. C.	Washington Loan and Trust Building
Siegfried, Alvin	S. D.	18 Iowa Circle

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
*Smith, Frank Seymour A.B., 1910, Wesleyan University; LL.B., 1913, LL.M., 1914, George Washington University	D. C.	1631 16th Street
*Smith, Fred William Stinchfield, Ray Lewis B.S., Worcester Polytechnic Institute	Iowa Mass.	1120 Rhode Island Avenue Patent Office
Tullar, Charles E. E.E., University of Minnesota; LL.B., National University Law School	Minn.	508 Tulip Avenue Takoma Park
Van Brunt, John H.	Mo.	Y. M. C. A.
Veach, Robert Spangler	Va.	415 4th Street
Weeks, Carl W. B.S., 1905, University of Maine; LL.B., 1914, Georgetown University	D. C.	1460 Park Road
*White, Joseph Curtis A.B., 1911, Bowdoin College; LL.B., 1914, George Washington University	Maine	203 A Street, S. E.
†Whitten, William Henry, Jr. B.S., 1896, M.S., 1897, Massachusetts Institute of Technology	Ill.	U. S. Patent Office
Woolley, Arthur	Utah	1409 15th Street
Woolley, Roland Rich	Utah	The Plymouth
†Wyman, William I. S.B., 1900, Massachusetts Institute of Technology; LL.B., 1904, National University; M.P.L., 1905, George Washington University	Mass	U. S. Patent Office

## SUMMARY

Candidates for LL.B. Degree	
First Year.....	147
Second Year.....	103
Third Year.....	85
Total.....	335
Candidates for LL.M. degree.....	18
Special Students.....	52
	405
Counted twice.....	3
Total.....	402



Candidates for degrees.....	350
Candidates for degrees who are College Graduates.....	115
Percentage.....	33.0
Candidates for degrees who have had all or part of a college course.....	213
Percentage.....	60.9

### COLLEGE GRADUATES, CANDIDATES FOR DEGREES

Alabama, University of.....	1	Nebraska Wesleyan University.....	1
Asbury College.....	1	New York University.....	1
Austin College.....	3	North Dakota, University of.....	1
Bowdoin College.....	2	Northwestern College, Watertown, Wis.....	1
Case School of Applied Sciences.....	1	Ohio Northern University.....	2
Charleston, College of.....	1	Ohio Wesleyan University.....	1
Chicago, University of.....	2	Pacific University.....	1
Colgate University.....	1	Pennsylvania Military College.....	1
College of the City of New York.....	1	Pennsylvania State College.....	1
Columbia University.....	2	Pennsylvania, University of.....	1
Cornell University.....	5	Princeton University.....	3
Dartmouth College.....	3	Purdue University.....	1
Delaware College.....	1	Rollins College.....	1
Ewing College.....	1	South Dakota, University of.....	1
Franklin and Marshall College.....	1	Southern Minnesota Normal College.....	1
Georgetown College.....	1	Syracuse University.....	1
George Washington University.....	17	Tennessee, University of.....	1
Hamilton College.....	3	U. S. Military Academy.....	1
Harvard University.....	7	U. S. Naval Academy.....	8
Henry Kendall College.....	1	Utah, University of.....	3
Iowa State College.....	2	Virginia, University of.....	1
Iowa, State University of.....	2	Washington and Lee University.....	3
Iowa Wesleyan College.....	1	Western Maryland University.....	1
Johns Hopkins University.....	1	William and Mary College.....	1
Kalamazoo College.....	1	Wisconsin, University of.....	4
Lehigh University.....	2	Worcester Polytechnic Institute.....	2
Massachusetts Institute of Technology.....	2	Yale University.....	6
Michigan Agricultural College.....	1		122
Michigan, University of.....	2		6
Minnesota, University of.....	1	Counted twice.....	6
Missouri, University of.....	1		
Nebraska, University of.....	1	Total.....	116

## MEDICAL SCHOOL

## CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

First Year		
<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Barrett, Charles Porter	D. C.	1764 K Street
Bittinger, Samuel Moffett	Tenn.	221 8th Street, S. W.
Cajigas, Tomás Moreu	P. R.	905 13th Street
Connor, Jack Anthony	D. C.	2227 1st Street
Davis, Cecil Clair	N. M.	1116 New York Avenue
*Ford, Florence Marion	Del.	1325 H Street
Lecker, Frank	N. Y.	1229 E Street
Leetch, Henry Winship	D. C.	3259 R Street
Lewis, Edward	D. C.	431 M Street
Little, John Franklin, Jr.	Ga.	131 A Street, N. E.
Lyons, John Hugh	D. C.	701 Quincy Street
Mason, Lyle Millan	Cal.	308 B Street, N. E.
*Masone, Joseph	Italy	1325 H Street
Myers, Robert Lindsey	Va.	111½ North Pitt Street, Alexandria, Va.
Northrup, Lewis Victor	N. Y.	610 L Street, N. E.
Pendexter, Ralph Stevens, LL.B., 1913, Georgetown University	Conn.	220 4th Street, S. E.
Powell, William Henry	Va.	Apt. 101, The Alabama
Quinlan, Margaret Marie	N. Y.	1228 Massachusetts Ave.
Ruiz, Ramón Clodomiro Nazario, Phar.D., 1914, Porto Rico Board of Pharmacy	P. R.	905 13th Street
Schoenfeld, Herbert Hermann	D. C.	3448 34th Place, Cleveland Park, D. C.
*Staley, Elizabeth Frances	S. C.	1016 Massachusetts Ave.
Stone, Raymond Rodeffer	Va.	812 B Street, N. E.
Tanner, Monroe	Conn.	1322 Vermont Avenue
Second Year		
Bailey, Marion Prentiss	S. C.	1727 Church Street
Bolton, Boyce Richardson	D. C.	1319 Q Street
Brian, Victor McMurry	Ill.	806 12th Street
Cafritz, Edward Alexander	D. C.	315 Q Street
Collins, George Aloysius	Pa.	1333 15th Street
Cortez, Manuel, Jr.	P. R.	24 Grant Place
Davis, Ralph Harold	N. Y.	1333 H Street
Dickerson, Dorrell Ghio	Va.	2220 Flagler Place
Dowling, George Brackett	D. C.	3603 14th Street



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Elmore, Henry Gibson	D. C.	1727 Riggs Street
Fadeley, James McNelledge	Va.	Falls Church, Va.
Frischkorn, Charles Rock	Pa.	1242 Newton Street, N. E.
Gill, William Tignor, Jr.	D. C.	442 M Street
Groesbeck, Bertram, Jr.	N. Y.	1824 S Street
Hartley, Gilbert Vernon	D. C.	611 E Street, S. E.
Hecht, David	N. Y.	721 11th Street
Henderson, Robert Edgar	D. C.	1405 Delafield Place
Herschman, Myer Jerome	D. C.	2733 P Street
Hines, Clifford Gentner	D. C.	1512 Columbia Road
Houghton, James Edwin	Pa.	1102 14th Street
Kennedy, Glen Marion	Cal.	1333 H Street
Klein, Kurt Karl	N. Y.	806 12th Street
Kotz, Jacob	Russia	1005 6th Street, N. E.
Legge, Kenneth Dartmouth	D. C.	214 A Street, S. E.
McDowell, John Stafford	N. Y.	1764 K Street
Mann, Jesse Thomas	D. C.	229 7th Street, N. E.
Manning, Wilbur Oscar	Pa.	22 2d Street, N. E.
Manus, Harry Martin	N. Y.	1305 H Street
Miller, Robert Bartle	D. C.	1320 10th Street
Miller, William Campbell	D. C.	86 Eastern Avenue, Takoma Park, D. C.
Montgomery, Howard Howlett	Md.	Silver Springs, Md.
Mueller, Louis Eugene	Wis.	801 12th Street
Mulligan, Edward William	R. I.	1414 Massachusetts Ave.
Oborski, Zygmund Anthony	Pa.	1305 H Street
Oden, Axel Robert	Sweden	1730 M Street
Otis, Fessendon Newport	Conn.	1322 Vermont Avenue
Otis, Israel Sabine	Conn.	1322 Vermont Avenue
Rawson, George Henry	Mass.	1113 11th Street
Rivera, Pedro Aponte	P. R.	24 Grant Place
Satterlee, Richard Covert	Ill.	801 12th Street
Shinn, Herbert Linville	D. C.	145 11th Street, N. E.
Simpson, Raymond Cornwell	D. C.	123 Maryland Ave., N. E.
Speidel, Francis George	D. C.	2309 1st Street
Stachnievich, John Henry	N. J.	1764 K Street
Storch, Raymond Bernard	D. C.	142 E Street, N. E.
Sullivan, Earle Eugene	N. Y.	1333 H Street
Thompson, Ralph Mortimore	Va.	Lucerne Apts., 15th and I Streets
Ph.G., 1910, University Col- lege of Medicine, Rich- mond, Va.		
Villamil, Jose Rosado	P. R.	24 Grant Place
Weaver, Clarence Easterly	D. C.	132 Kentucky Ave., S. E.

## Third Year

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Andrews, John Nevins	D. C.	116 Willow Avenue, Takoma Park, D. C.
Bergeron, George Gernon	Mass.	1764 K Street
Brin, Carlos Nicholas	Panama	1402 L Street
Camp, Joseph Warren	Ore.	Starmonst Sanatorium, Washington Grove, Md.
Catzva, Moriss	Russia	235 F Street, N. E.
Chadwick, Everell Verni	Pa.	1764 K Street
Chamberlin, Frank Tenny, Jr.	D. C.	1323 M Street
Collins, Robert Hugh	Va.	Ft. Myer Heights, Va.
Conaway, Austin Ottis	W. Va.	1414 Massachusetts Ave.
Coolidge, Leroy Elmer	Pa.	1116 New York Ave.
Cousins, Sidney Charles	D. C.	550 14th Street, S. E.
Craig, Ernest Arthur	Ill.	1008 K Street
Cushing, Eleanore Scholl	Ill.	2003 H Street
Figuera, Jaime Julian	P. R.	24 Grant Place
Folsom, John Eugene	D. C.	933 H Street
Garrido, Peter Thomas	P. R.	12 Grant Place
†Gordon, Robert John	Wis.	906 I Street
Grayson, Stewart Maxwell	Va.	Vienna, Va.
Haskell, Roy Terry	D. C.	808 New Jersey Avenue
Huddleston, Jarrett Matthew	D. C.	Emergency Hospital
Jacobs, Burton Leroy	Tenn.	1008 K Street
A.B., 1913, Union College, Lincoln, Nebraska		
Ladd, John Morriss	Va.	612 North Carolina Ave.
McCanna, Louis Eugene	N. Y.	1764 K Street
Macon, Edward Bailey	D. C.	1764 K Street
Phar.D., 1912, State College, Angola, Indiana		
McNertney, Frank Daniel	Ill.	2009 G Street
*Murphy, Edward Spencer	Minn.	1113 11th Street
Norton, William Harrison	N. Y.	Sibley Hospital
Phar.D., 1912, George Wash- ington University		
Peters, David B.	Va.	Tuberculosis Hospital
Phar.D., 1910, George Wash- ington University		
Powers, Richard Thomas	N. Y.	1008 K Street
Quirk, Jerome Thurston	Va.	Garfield Hospital
Ramsay, James Archie	Canada	1116 New York Avenue
Reuter, Fritz August	D. C.	1337 Park Road



<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Rice, Eugene Clarence, Jr.	D. C.	4832 16th Street
Rivera, Rafael Antonio	P. R.	24 Grant Place
Rosenberg, Louis Charles	Conn.	936 K Street
Ryan, Frank Kevan	N. Y.	1433 L Street
Stachniewicz, Vincent Joseph	D. C.	Sibley Hospital
Stratton, Ernest Kenneth	N. J.	Central Emergency Hos- pital
P.D., 1910, Philadelphia Col- lege of Pharmacy		
Taylor, Sterling Price	D. C.	1240 Pennsylvania Ave., S. E.
Thyson, Leo Cromwell	D. C.	1366 Columbia Road
Phar. D., 1912, George Wash- ington University		
Tilton, Joel Adams, Jr.	D. C.	1520 29th Street
Walton, Robert Ralph	Wash.	1107 13th Street
White, Paul Amos	D. C.	37 V Street, N. E.
S.B., 1908, Simpson College;		
Ph.B., 1908, Chicago Uni- versity		

## Fourth Year

Atkinson, Francis Vernon	D. C.	23 Iowa Circle
Ball, William Edward	N. Y.	1113 11th Street
Bingham, Carroll Edward	Pa.	617 Morris Street, N. E.
Blake, Benjamin Charles	La.	1216 12th Street
Bost, Thomas Creasy	N. C.	1300 Massachusetts Ave.
Bradley, Jeter Carroll	N. C.	1300 Massachusetts Ave.
Brown, Edward Allan	Va.	1105 K Street
Carr, Earl Burton	N. Y.	1335 H Street
Collins, James Harold	D. C.	Casualty Hospital, N. E.
A.B., 1907, Bowdoin College		
Dean, Floyd Chapin	N. Y.	Sibley Hospital
DeLuca, Horatio Roger	N. J.	1230 Massachusetts Ave.
Donn, Frederick Young	D. C.	511 2nd Street, N. E.
Phar.D., 1904, National Col- lege of Pharmacy; Ph.C., 1908, Medical-Chirurgical College of Pharmacy		
English, Merton Alden	D. C.	1758 Park Road
Gentzkow, Cleon Joseph	Minn.	Garfield Hospital
Green, Eric Steele	N. Y.	1764 K Street
Kenner, Albert Walton	Va.	1711 17th Street
Phar.D., 1910, George Wash- ington University		
Lippitt, Samuel Herman	D. C.	2003 H Street

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
McCray, Arthur Howard S.B., 1909, Ohio State Uni- versity; D.V.M., 1911, George Washington Uni- versity	Ohio	1335 H Street
Moreno, Joseph deRoulhac	Fla.	1322 15th Street
Moser, Harry Newton	Pa.	612 M Street
Passer, William Frederick Ph.C., 1904, University of Minnesota	Minn.	Children's Hospital
Pullen, George William, Jr.	Ohio	1764 K Street
Putzki, Paul Stirling	D. C.	1862 California Street
Rafter, Robert Read	D. C.	3105 16th Street
Ralph, Charles Edward	Ill.	6216 9th Street
Rowlson, Ira Alonzo	N. Y.	1433 L Street
Shea, George Marvin Waite	Conn.	3210 19th Street
Williams, V. Blackstone	D. C.	Nansemond Apartment
Woodward, Roy B.	N. Y.	Casualty Hospital
Zeagler, Allen Grover	La.	1764 K Street

SPECIAL

Falck, James Stanley	D. C.	Drug Store, Union Station
Koss, Edward Flavelle Phar.D., 1914, George Wash- ington University	D. C.	1814 Calvert Street

SUMMARY

First Year.....	23
Second Year.....	49
Third Year.....	43
Fourth Year.....	30
Special.....	2



## DENTAL SCHOOL

## CANDIDATES FOR THE DEGREE OF DOCTOR OF DENTAL SURGERY

<i>Name</i>	<i>First Year</i>	
	<i>Legal Residence</i>	<i>Address</i>
Allen, Clarence Basom	Pa.	Apt. 45, The Iowa
*Aleman, Luis	Panama	Portland Apartment
Arbeely, Joseph Evans	D. C.	1111 F Street
Black, John Edward	Mass.	1736 G Street
*Bock, Henry C.	D. C.	1613 Emerson Street, N. E.
Bowen, Lawver Winter	Colo.	1700 15th Street
A.B., 1910, University of Colorado		
Butkiewicz, Eugenia	D. C.	312 G Street, N. E.
Cannon, Munn Quayle	Utah	110 Woodworth Apts., 10th and M Streets
Copping, Edward John	D. C.	1333 High Street
Diaz, Manuel Maria	Panama	Stoneleigh Court
Dimas, Eva	P. R.	817 12th Street
Donahey, Merl Emmanuel	Pa.	1108 8th Street
Douglas, Frank W.	Fla.	1310 Massachusetts Ave.
Elliot, John L.	Md.	Atlantic Apartments, 10th and N Streets
Faherty, Leo Charles	Md.	1400 Pennsylvania Ave., S. E.
Fitzhugh, Clark Seal	D. C.	Naval Hospital
Flanagan, George Andrew	N. Y.	903 13th Street
Forman, Milton	Wis.	Home Apartments
Frank, Earl Bennett	R. I.	1224 Massachusetts Ave.
Frost, Leon	Ohio	1333 15th Street
Gallagher, Patrick	Ireland	309 B Street, S. E.
Garcia, Jose Santiago	P. R.	24 Grant Place
Gilliam, Paul Sherwood	Va.	1710 G Street
A.B., 1909, William and Mary College		
Goetzman, George Frank	Wis.	211 Florida Avenue
Heald, Alfred Daniel	Mass.	132 East Capitol Street
Hooper, Lyman John	N. C.	318 Indiana Avenue
Horgan, Frederick William	Mass.	923 8th Street
Kearney, Edward Joseph	D. C.	133 Quincy Place, N. E.
Lady, George Webster	Ala.	518 B Street, N. E.
Lockwood, Daniel Sumner	Ill.	Astoria, 3rd and G Sts.
Manley, Oscar Leonard	Miss.	U. S. Treasury Rate Board
*Martin, Raul E.	C. R.	1920 Nichols Ave., S. E.
Minkin, Leah	D. C.	416 P Street
Null, William Harry	N. Y.	1401 5th Street

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Ogus, William Irving	Mass.	914 R Street
Plugge, Frederick	D. C.	1310 13th Street
Postlewait, Claude M.	Ill.	1105 K Street
Root, James Isaac	Mich.	1338 Newton Street
*See, Charles Burke	D. C.	47 U Street
Shields, Clarence Samuel	Ky.	505 L Street
Stephens, Milton	Tenn.	12 Grant Place
Sullivan, Walter Francis	Pa.	1811 G Street
Taft, Harry C.	Conn.	Columbia Hospital
Vordermark, Herman Henry	S. D.	307 S Street, N. E.
*Wilson, James Edward	D. C.	315 H Street
Woertendyke, Clifford Marcelous	N. Y.	405 4th Street, N. E.
Woods, Frederick Davis	Ark.	1100 Vermont Ave.
*Wressell, Chauncey M.	Iowa	2121 H Street
Wyman, Webb Watson	Ohio	622 Lamont Street
Yoakum, Festy	W. Va.	1036 Park Road

## Second Year

Aspinall, Charles Pindall	W. Va.	1418 Meridian Street
Burgess, Eric Hjalmar	R. I.	828 12th Street
Butkiewicz, John K.	Russia	312 G Street, N. E.
Claytor, Spry Owen	Ohio	1504 Columbia Road
Cohen, Irvin Bertram	Ala.	1812 9th Street
Cohen, Maurice Harvey	Ala.	1812 9th Street
Cole, John Burns	Mo.	1615 Swan Street
Davis, Albert Wendell	D. C.	160 Tennessee Ave., N. E.
Davis, Bernard Martina	Md.	3019 O Street
Diehl, Harry Oliver	Pa.	48 H Street, N. E.
Evansha, John Francis	Pa.	1112 G Street
Frazier, George Mortimer	D. C.	615 6th Street
Gilman, Harry Kahalemake	Hawaii	2022 F Street
Herring, Paul Supplee	Md.	Hyattsville, Md.
Johnson, Walter N.	Tenn.	1707 Pennsylvania Ave.
Johnston, Paul Edward	Va.	Corner 9th and G Streets
Lynch, Joseph Aloysius	N. Y.	1217 L Street
McCullough, Robert Campbell	Ill.	1751 Columbia Road
McMinn, Jacques Salomae	Tex.	1707 Pennsylvania Ave.
Moore, Clarence Robert	Va.	1418 Meridian Street
Morgan, John Edward	D. C.	1334 G Street, S. E.
Porter, Frank Gamewell	Iowa	620 Maryland Ave., N. E.
Shadrick, John Hebb	Md.	395, State, War and Navy Building
Stein, Edwin Leroy	Wash.	116 C Street, S. E.
Stutzman, William Ernest	D. C.	3533 Warder Street



## STUDENTS

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Sweet, William Manly	D. C.	211 Florida Avenue
Willard, Albert William	Maine	706 20th Street
Wilson Myron Webster	D. C.	58 M Street
Wolf, May	D. C.	626 22d Street
<b>Third Year</b>		
Brower, Delmer Davis	Va.	704 K Street
Browne, Wilmer M.	N. Y.	1206 O Street
Carr, Josiah Lawrence	D. C.	3616 New Hampshire Ave.
Dimas, Blanca	P. R.	817 12th Street
Flood, John Anthony	N. J.	1521 C Street, S. E.
Frazier, Griffin Guy	D. C.	26 Grant Place
Friedman, Joseph Altshuler	D. C.	1416 9th Street
Hall, Arthur Ruebun	D. C.	1300 Maryland Ave., N. E.
Higgins, Raymond Odo	Neb.	1416 R Street
Lewis, Ellis Smith	Va.	Ballston, Va.
Minkin, Golda	D. C.	416 P Street
O'Brien, William Joseph	Conn.	New Ebbitt Hotel
Palkin, Joseph Ralph	Conn.	1215 I Street
Sampsell, Thomas Lloyd	D. C.	24 Grant Place
Sandberg, Adolph	D. C.	1402 14th Street
Schmidt, Carl Heisler	Mass.	1106 Vermont Avenue
Slack, Edward Markom	D. C.	417 6th Street
Thompson, James Gray	D. C.	1207 East Capitol Street
Thompson, Richard Knight	D. C.	484 Maryland Ave., S. W.
Tilley, Edwin Ross	D. C.	3510 10th Street
Wagner, Lawrence Reginald	D. C.	919 L Street
White, Douglas Alfred	Mass.	1106 Vermont Avenue
Wresinski, Leo J.	D. C.	U. S. Soldiers' Home, D. C.
<b>SPECIAL</b>		
Bushman, Robert Joseph	Iowa	2021 H Street
Heistermann, Will Frederick	Iowa	818 New Jersey Avenue
Owen, George Thomas	Tenn.	664 E Street, N. E.
Rush, Arma E.	D. C.	629 G Street, S. W.
Snapp, John Harper	D. C.	419 M Street
Staves, Marion C.	Iowa	Brunswick Apt. House
Thatcher, Arthur Stockton	Pa.	Apt. 42, 2140 N Street

## SUMMARY

First Year.....	50
Second Year.....	29
Third Year.....	23
Special.....	7

## NATIONAL COLLEGE OF PHARMACY

## CANDIDATES FOR THE DEGREE OF DOCTOR OF PHARMACY

## Freshmen

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Bradshaw, Walter Nelson	Va.	Herndon, Va.
Brown, Earl Luvern	Iowa	701 1st Street
Burley, Allan	Va.	129 Thomas Street
Cox, William Edwin	D. C.	1234 Massachusetts Ave.
D'Leen, Louis John	Russia	Victor Hotel
Dement, William Edward	D. C.	617 North Carolina Ave., S. E.
Faxas, Ferdinando Tow	Cuba	318 3d Street
Flemer, George Roosevelt	D. C.	701 Maryland Ave., N. E.
Foster, Allen, Jr.	D. C.	1505 Rosedale Street, N. E.
Frazier, Henderson Stovall	Va.	Cherrydale, Va.
Mestre, José Raul	Cuba	333 C Street
Newman, Charles	Va.	326 Maryland Ave., N. E.
Norris, Walter Benton	Md.	811 13th Street
Riley, Albert Austin	Ohio	1375 Columbia Road
Sasser, Jesse Edgar	Fla.	1307 R Street
Smith, Frederick Emmett	D. C.	117 Carroll Street, S. E.
Strait, Ernest Sylvester	Miss.	1616 14th Street
Williams, Thomas Franklin	Va.	14th Street and Massachu- setts Avenue

## Juniors

Adams, William S.	D. C.	713 16th Street, N. E.
Blue, Norman Rockwell	D. C.	1855 Lamont Street
Colahan, John Thompson	Md.	Rockville, Md.
B.T., 1902, St. Mary's Semi- nary, Baltimore, Md.		
Davis, George Alfred	Md.	Kensington, Md
Davis, Paul Roscoe	Pa.	11½ Grant Place
Dudley, James Walter	D. C.	Takoma Park, D. C.
Fegan, Frances E.	D. C.	493 H Street, S. W.
Frailey, William Albert	Md.	The Sherman
Gaines, John Marshall	Va.	114 North Alfred Street, Alexandria, Va.
Johnson, Perry Marshall	Va.	120 South Henry Street, Alexandria, Va.
Kelly, James William	Va.	Bureau of Chemistry
Kiefer, Ralph Sylvester	Pa.	6907 6th Street
Leon, Manuel Benitez	Cuba	318 3d Street
McKennon, Emory F.	Ohio	1330 North Capitol Street
Minnick, George Vail	Pa.	300 11th Street, S. E.



## STUDENTS

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Painter, Archie Carlyle	D. C.	501 6th Street, N. E.
Pajewski, Peter Joseph	Russia	701 Maryland Ave., N. E.
Paylor, Russel S.	N. C.	803 A Street, S. E.
Stewart, William Alfred Turner	Idaho	1407 Rhode Island Ave.
Wedding, William Conrad	D. C.	18 6th Street, N. E.

## Seniors

Arnold, Howard Leslie	Va.	222 North Patrick Street, Alexandria, Va.
Borland, Anna May	Mich.	The New Berne
Brown, Andrew Jackson	N. C.	619 East Capitol Street
A.B., 1912, Roanoke College		
Crisp, Thomas Benton, Jr.	D. C.	638 E Street, N. E.
Day, Harold Lewis	D. C.	1421 Euclid Street
Donahue, Thomas Francis	D. C.	3345 P Street
Fink, James Albert	D. C.	1826 15th Street
Goldstein, Morris G.	Russia	617 P Street
Heller, Theodore John	D. C.	740 7th Street, S. E.
Kenner, Harry Roland	D. C.	1711 17th Street
Kerfoot, Garland Sydnor	D. C.	69 W Street
Kimball, Clarence Victor	N. C.	1850 Park Road
Kloczewski, Albert Marian	D. C.	701 5th Street
Lantz, Samuel Aaron	Va.	520 3d Street
McCambridge, Joseph Austin	D. C.	2144 F Street
Malone, William Wallace	D. C.	701 8th Street, S. E.
Minkin, Abraham J.	Russia	1501 1st Street
Modena, Ervin	Va.	703 15th Street
Moose, George Kelly	N. C.	1753 Kilbourne Street
Norris, Earl Maydwell	Md.	130 Randolph Street
Tibbets, Lyman B.	D. C.	1636 17th Street
Umhau, John William	D. C.	737 10th Street, S. E.
Vestal, Paul William	N. C.	7th Street and Massachu- setts Avenue
Weil, Albert	Va.	Alexandria, Va.
Williams, Clyde Gray	Pa.	1014 Pennsylvania Avenue, S. E.

## SPECIAL

White, Gershom Franklin	N. Y.	1332 Vermont Avenue
M.D., 1909, George Washing- ton University		

## SUMMARY

Freshman.....	18
Junior.....	20
Senior.....	25
Special.....	1
	—
	64

## COLLEGE OF VETERINARY MEDICINE

## CANDIDATES FOR THE DEGREE OF DOCTOR OF VETERINARY MEDICINE

## Freshmen

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Ashton, Charles Paul	D. C.	339 8th Street, N. E.
Bookhultz, John Milford	Md.	1537 9th Street
Carl, John Clarence	N. C.	1939 35th Street
Chase, Lester Gilbert	Maine	1403 12th Street
Criswell, Lindsay Leland	Ind.	518 B Street, N. E.
Dennewitz, Homer Arresta	Ohio	Y. M. C. A.
Grenfell, William Joseph	D. C.	1916 H Street
Haas, Joseph Peter	Pa.	927 New York Avenue
Hines, Laurence Irwin	Neb.	215 9th Street, S. W.
Hunter, Charles Montgomery	D. C.	2021 H Street
Johnson, Burnett Carperter	Minn.	533 Newton Street
Kelley, John Francis	Mass.	1215 K Street
Kelser, John Oscar	D. C.	231 14th Street, N. E.
Lanahan, Frank Robert	D. C.	612 G Street, S. W.
Oyster, Francis Larmour	D. C.	612 East Capitol Street
Price, Emmett William	W. Va.	1320 W Street
Rowan, Alousius Ignatius	D. C.	1222 New Jersey Avenue
Seymour, Walter Eugene	Ohio	914 Massachusetts Ave.
Wessell, Francis Henry	Conn.	706 20th Street
Whitehill, Nelson	D. C.	141 Massachusetts Ave., N. E.
Woodson, Charles Edward	Va.	1327 R Street

## Sophomores

Lawych, Louis	N. Y.	531 Gresham Place
Lewis, Ralph Henry	Md.	Riverdale, Md.
Nichols, Robert Lee	Md.	Laurel, Md.
Pulsifer, Walter Clude	N. H.	317 F Street, N. E.
Savage, Howard Mayo	Ill.	1117 Vermont Avenue
A. B., 1899, College of Em- poria, Emporia, Kansas		
Wright, Willard Hull	Ohio	3028 Park Place



## Juniors

<i>Name</i>	<i>Legal Residence</i>	<i>Address</i>
Biondi, Harry James	D. C.	508 7th Street, S. E.
Brown, Herbert Hyde	Mo.	The Alabama Apartments
Buffin, Kenneth Earl	Md.	Chevy Chase, D. C.
Grubb, William Hugh	Va.	1320 W Street
Lynn, William Monroe	N. C.	201 I Street
Rippon, Charles William	Pa.	1322 W Street
Sipos, Andrew James	Va.	2115 14th Street
Skippon, Charles David	Pa.	2008 1st Street
Thigpen, Claude	Ala.	1901 K Street
Wilcox, Floyd Percy	N. Y.	1536 9th Street

## SPECIAL

Berg, William Nathan	N. Y.	819 C Street, S. W.
B.S., 1904; Ph.D., 1907, Col- umbia University		
Clements, Clarence Elbert	N. H.	2115 14th Street
Hall, Maurice Crowther	D. C.	1815 Hamlin Street, N.E.
S.B., 1905, Colorado College; A.M., 1906, University of Nebraska		

## SUMMARY

Freshmen.....	21
Sophomores.....	6
Juniors.....	10
Special.....	3
	—
	40

## GEOGRAPHICAL DISTRIBUTION

Alabama.....	7	Oregon.....	4
Arizona.....	1	Pennsylvania.....	74
Arkansas.....	3	Rhode Island.....	6
California.....	9	South Carolina.....	8
Colorado.....	7	South Dakota.....	8
Connecticut.....	20	Tennessee.....	16
Delaware.....	4	Texas.....	20
District of Columbia.....	792	Utah.....	19
Florida.....	6	Vermont.....	3
Georgia.....	5	Virginia.....	86
Idaho.....	5	Washington.....	9
Illinois.....	43	West Virginia.....	14
Indiana.....	16	Wisconsin.....	21
Iowa.....	36	Wyoming.....	1
Kansas.....	16	Canada.....	2
Kentucky.....	13	China.....	7
Louisiana.....	9	Columbia.....	3
Maine.....	13	Costa Rica.....	1
Maryland.....	87	Cuba.....	4
Massachusetts.....	46	Germany.....	4
Michigan.....	17	Hawaii.....	4
Minnesota.....	22	Holland.....	1
Mississippi.....	6	India.....	1
Missouri.....	23	Ireland.....	1
Montana.....	6	Italy.....	1
Nebraska.....	17	Japan.....	1
Nevada.....	1	Mexico.....	2
New Hampshire.....	6	Panama.....	3
New Jersey.....	16	Philippine Islands.....	3
New Mexico.....	3	Porto Rico.....	13
New York.....	106	Roumania.....	1
North Carolina.....	21	Russia.....	7
North Dakota.....	6	Sweden.....	1
Ohio.....	41		
Oklahoma.....	12		
			1790



## GENERAL SUMMARY

## TEACHING STAFF

In many instances members of the Teaching Staff give only part time to the University:

Professors.....	76
Associate Professors.....	8
Associates.....	11
Assistant Professors.....	19
Lecturers and Instructors.....	84
Assistants and Demonstrators.....	31
Total.....	229

## STUDENTS REGISTERED IN THE UNIVERSITY DURING 1914-15

## Department of Arts and Sciences

School of Graduate Studies.....	96
Columbia College.....	594
College of Engineering.....	219
Teachers College.....	141

1050

Duplicates..... 3 1047

## Professional Schools

Law School.....	402
Medical School.....	147
Dental School.....	109 658

## Associated Colleges

National College of Pharmacy.....	64
College of Veterinary Medicine.....	40 104

1809

Duplicates..... 19

Total Registrations for the Year..... 1790

## DEGREES CONFERRED

### AT COMMENCEMENT, 1914

#### HONORARY

Doctor of Letters

Percival Hall

Master of Arts

Ernest Lawton Thurston

#### IN COURSE

##### Doctor of Philosophy

- Philander Betts.....New Jersey  
S.B., 1891, S.M., 1895, Rutgers College; E.E., 1903, George Washington University
- George Morton Churchill.....Massachusetts  
A.B., 1896, Boston University; A.M., 1909, George Washington University
- Abdel Ross Wentz.....Pennsylvania  
A.B., 1904, A.M., 1907, Pennsylvania State College, B.D., 1907, Gettysburg Theological Seminary

##### Master of Arts

- Rebecca Sherman Ashley.....Minnesota
- Gertrude Richardson Brigham.....Massachusetts  
A.B., 1913, George Washington University
- Edith Mary Clark.....New York  
L.L.A., 1889, St. Andrew's University, Scotland.
- David Ransom Covell.....District of Columbia  
A.B., 1910, George Washington University
- Clarence Andrew Knudston.....District of Columbia  
A.B., 1913, George Washington University
- William Johnson Mallory.....District of Columbia  
M.D., 1903, George Washington University
- Arcesio Penagos, Y. R.....Colombia  
Ph.B., 1906, LL.D., 1910, Cauca University, Colombia
- Mabel Lavinia Scott.....District of Columbia  
A.B., 1907, George Washington University
- Joseph Duerson Stout.....District of Columbia  
A.B., 1910, M.D., 1913, George Washington University
- Carl Maria Johann von Zielinski.....Virginia  
A.B., 1913, George Washington University



## Master of Science

Carl Frederick Miller.....	New York
S.B., 1912, Syracuse University	
Harry McClure Miller.....	Kentucky
S.B., 1909, Hanover College	
John Benjamin Rieger.....	Pennsylvania
S.B., 1907, University of Michigan	

## Civil Engineer

Donald Langley Dutton.....	District of Columbia
B.S. in C.E., 1913, George Washington University	
John Rochford Dwyer.....	District of Columbia
B.S. in C.E., 1913, George Washington University	
Theodore Thomas Kirk.....	Kentucky
B.S. in C.E., 1913, George Washington University	

## Bachelor of Arts

Joseph Harper Batt.....	Delaware
Harry Gustavus Beneman.....	Maryland
Alvin McCreary Brown.....	Maryland
Katherine Burden.....	District of Columbia
(With distinction)	
Edith Cheney.....	District of Columbia
(With distinction)	
Mathilde Eiker.....	District of Columbia
Esther Elizabeth Galbraith.....	District of Columbia
(With distinction)	
Michael Alvord Gore.....	District of Columbia
Elsie Eugenia Green.....	District of Columbia
Lucy Jeston Hampton.....	Oklahoma
Eugene Claudius Harter.....	Ohio
Earl Munro Jeffrey.....	Wisconsin
Louis Fredrick Krumrein.....	Maryland
Elsa Dorothea Muench.....	District of Columbia
Harry Church Oberholser.....	New York
Ruth Vesta Pope.....	California
Joseph R. Rohrer.....	Ohio
Stella Ruth Schenck.....	Indiana
Lew Wallace Springer.....	New Mexico
Alfred Julian Steinberg.....	New York
Florence Mary Taylor.....	District of Columbia
Smith Gordon Thornton.....	Louisiana
Jack Watskey.....	Virginia
Reuben Weinstein.....	New York
Robert Mason Wilhelm.....	Maryland
Margaret Posey Wilson.....	District of Columbia
(With distinction)	

**Bachelor of Arts and Bachelor's Diploma in Education**

Gertrude Veronica Browne.....	District of Columbia
Lillian Evans Carpenter.....	District of Columbia
(With distinction)	
Elizabeth Ferguson.....	District of Columbia
Genevieve Margaret Frizzell.....	District of Columbia
(With distinction)	
Walton Colcord John.....	District of Columbia
Margaret Lucile Lawson.....	District of Columbia
Henry Tilton Richards.....	District of Columbia
Marietta Stockard.....	North Carolina

**Bachelor's Diploma in Education**

Isabel Rhoda Capell.....	District of Columbia
A.B., 1907, George Washington University	

**Bachelor of Science in Chemistry**

Mayne Reid Coe.....	District of Columbia
Earl Arnold Giantvalley.....	Minnesota
Russell E. Hicks.....	Maryland
Lewis Thompson Leonard.....	District of Columbia
Royal Lewis Shuman.....	Pennsylvania
Aaron Steinberg.....	New York
Harry Woodward Thompson.....	Iowa

**Bachelor of Science in Civil Engineering**

Jose P. Dans.....	Philippine Islands
William Adams Elwood.....	New York
John Dominic McCormick.....	District of Columbia
Herbert Paul Middleton.....	New York
(With distinction)	

**Bachelor of Science in Mechanical Engineering**

Arthur Sherman Halsey.....	Pennsylvania
----------------------------	--------------

**Master of Laws**

Frank Albert Bower.....	New York
M.E., 1910, Cornell University; LL.B., 1913, George Washington University	
Charles Hugh Gibbon.....	Wisconsin
LL.B., 1913, George Washington University	
Frank Seymour Smith.....	District of Columbia
A.B., 1910, Wesleyan University; LL.B., 1913, George Washington University	



## Bachelor of Laws

Harold Knowles Acker.....	District of Columbia
Paul Anderson.....	Illinois
Charles Silas Baker.....	District of Columbia
A.B., 1911, Cornell University; A.M., 1912, Columbia University	
Walter Elbert Barton.....	Idaho
(With distinction)	
Edgar Foster Baumgartner.....	New Jersey
M.E., 1911, Lehigh University	
Henry George Atkinson Black.....	Massachusetts
(With distinction)	
Paul Raymond Borland.....	Pennsylvania
A.B., 1910, Washington and Jefferson College	
Bennett Champ Clark.....	Missouri
A.B., 1913, University of Missouri	
(With distinction)	
Merrell Edward Clark.....	New York
M.E., 1911, Cornell University	
(With distinction)	
Alpheus Jennings Crane.....	District of Columbia
B.S. in E.E., 1903, Purdue University	
(With distinction)	
Edward Henry Cumpston, Jr.....	District of Columbia
M.E., 1909, Cornell University	
Frank Barrows Freyer.....	District of Columbia
Graduate, 1902, United States Naval Academy	
Louis Greenberg.....	District of Columbia
William Upshur Handy.....	District of Columbia
Luther Willis Hawley.....	Vermont
S.B., 1908, Worcester Polytechnic Institute	
Frank Atherton Howard.....	Illinois
B.S. in M.E., 1911, George Washington University	
Elliott S. Hubbard.....	New York
Arthur Chilion Johnson.....	Colorado
Carl Curtis Jones.....	Maine
Harrison Byington McCawley.....	Iowa
A.B., 1910, Drake University	
Carl Antony Mapes.....	Michigan
Claude Custer Rose.....	Ohio
M.E., 1905, Ohio State University	
(With distinction)	
Samuel Rubenstein.....	New York
Harold Benthall Sanders.....	Mississippi
S.B., 1910, Mississippi Agricultural and Mechanical College	
Harrold Christian Schaffer.....	District of Columbia

Leroy Christian Schantz.....	Iowa
B.S. in E.E., 1908, Iowa State College	
Joseph Walter Scheffer.....	Connecticut
Franklin Denwood Shawn.....	Pennsylvania
Frank Brown Smith.....	Maryland
Neal Bradford Spahr.....	Tennessee
A.B., 1911, University of Chattanooga	
Edward Stafford.....	District of Columbia
A.B., 1911, Dartmouth College	
Charles Stanley Stevenson.....	Kansas
Marion Snow Tanner.....	Utah
A.B., 1911, University of Utah	
(With distinction)	
Edward Wilford Weikert.....	Pennsylvania
Ph. B., 1906, Brown University	
Ernest Ferdinand Wenderoth.....	New York
B.S. in E.E., 1910, George Washington University	
Joseph Custis White.....	Maine
A.B., 1911, Bowdoin College	
(With distinction)	
Walter Browne Woodson.....	Virginia
Graduate, 1907, United States Naval Academy	
(With distinction)	
George Bullock Willis.....	Virginia
Ulysses Wayne Wright.....	Illinois
A.B., 1911, Illinois College	
(With distinction)	
Doctor of Medicine	
Melville Joseph Aston.....	Pennsylvania
Gervase James P. Barger.....	Nebraska
Rudolph Bloom.....	Virginia
Joseph Johns Eisenberg.....	Wisconsin
Ph. G., 1910, Marquette University	
Roy John Hardstaff.....	Australia
(With distinction)	
Forrest Martin Harrison.....	Virginia
Floyd Burton Jones.....	Canada
Andres Martin Jova.....	Cuba
Jacob John Lonsdorf, Jr.....	Pennsylvania
Thomas Miller, Jr.....	District of Columbia
Moriss Waldmar Sherwood.....	Wisconsin
Eugene Deyerle Supplee.....	Virginia
Tsannyoen Philip Sze.....	China
(With distinction)	
Chase Taylor.....	District of Columbia
Vilas George Van Ornam.....	New York



## Nurse's Certificate

Gertrude Mary Adams.....	New York
Ella Clayton Buckley.....	Virginia
Daisy Edna Case.....	Virginia
Ruby May Garthright.....	Virginia
Sophia Sidney Pearson.....	Virginia
Nannie May Pike.....	North Carolina
Elizabeth Key Quesenberry.....	Virginia
Mary Bennett Quesenberry.....	Virginia
Catherine Meta Swart.....	Virginia
Wilhelmina Triplett.....	Virginia

## Doctor of Dental Surgery

Ira Dow Beebe.....	Connecticut
Camille Robespierre Bon Seigneur.....	France
Donald Callar.....	Pennsylvania
Samuel Danemann.....	Russia
Orville Newton Fansler.....	Nebraska
(With distinction)	
Samuel Benjamin Ginsberg.....	District of Columbia
Edward Earl Golden.....	Wyoming
Nemorin Guilhempe.....	France
Walter Lovell Hagen.....	New York
Sterling Vernon Mead.....	Kansas
Benjamin Frank Prendergast.....	District of Columbia
Jasper Newton Roberts.....	Tennessee
Harry Ernest Walls.....	Georgia

## Doctor of Pharmacy

John Gregory Biggs.....	District of Columbia
Beulah Lanette Blackiston.....	California
Vincent Alois Burgher.....	New Jersey
John Mortimer Carroll.....	District of Columbia
Walter Joseph Andrew Donohoe.....	New York
Frederick Edwin Dudley, Jr.....	District of Columbia
Earle Richardson Hall.....	Iowa
Edward Flavelle Koss.....	District of Columbia
John Allen Murphy.....	Pennsylvania
LL.B., 1909 Georgetown University	
William Andrew Stephens.....	Kentucky
Jacob Waldman.....	Russia

## Doctor of Veterinary Medicine

Irving Magruder Cashell.....	Maryland
Joseph F. Chamberlain.....	District of Columbia
Judson Kerfoot Chapin.....	Virginia
Joseph Harmon Colflesh.....	Pennsylvania

Parley Merle Cook.....	Ohio
Norman C. Craig.....	Pennsylvania
Arthur Burdeek Crawford.....	New York
John James Essex.....	Maryland
Samuel Dexter Forbes.....	Virginia
Harry Rohrer Getz.....	Pennsylvania
(With distinction)	
Frederick Aloysius Grenfell.....	District of Columbia
Jesse Hayes.....	New Jersey
Raymond Alexander Kelser.....	District of Columbia
Howard Sydnor Miller.....	Virginia
Francois Hue Kari Reynolds.....	Wisconsin
Jacob Edward Shillinger.....	Maryland
William Stark Trigg.....	Virginia
Clifford Caswell Whitney.....	Massachusetts

## AT FALL CONVOCATION, 1914

## IN COURSE

## Doctor of Philosophy

Charles Henry Tyler Townsend.....	District of Columbia
S.B., 1908, George Washington University	

## Master of Arts

Mary Josephine White.....	Maryland
A.B. and Bachelor's Diploma in Education, 1913, George Washington University	

## Master of Science

Willis Winter Bradley, Jr.....	Washington
Graduate, 1906, United States Naval Academy	
James Chamberlain Crawford.....	Nebraska
Robert Franklin Gardiner.....	Rhode Island
S.B., 1908, Rhode Island State College	
Harry Church Oberholser.....	District of Columbia
A.B., 1914, George Washington University	

## Bachelor of Arts

Joseph Philip Bader.....	New York
George Henry Baston, Jr.....	Maine
John Andrew Ignasiak.....	Pennsylvania

## Bachelor of Arts and Bachelor's Diploma in Education

Margaret Bayly.....	District of Columbia
---------------------	----------------------



## Bachelor of Laws

Cecil Cooper Fraizer.....Indiana  
 Paul Oren.....Pennsylvania

## AT WINTER CONVOCATION, 1915

## IN COURSE

## Doctor of Philosophy

Maurice Crowther Hall.....District of Columbia  
 S.B., 1905, Colorado College; A.M., 1906, University of Nebraska

## Master of Arts

Francis Edward Carter.....Virginia  
 A.B., 1913, George Washington University

## Bachelor of Arts

Elin Gilmore Brewer.....District of Columbia  
 Leland Stanford Copeland.....Missouri  
 (With distinction)  
 Alexander Rives Seamon.....Virginia

## Master of Laws

Robert Mathias Zacharias.....Pennsylvania  
 A.B., 1907, Franklin and Marshall College; LL.B., 1913,  
 George Washington University

## Bachelor of Laws

Harry Scott Elkins.....South Dakota  
 William Reed Fitch.....North Dakota  
 Frederick Dix Fletcher.....Washington  
 Willis Ballance Rice.....New York  
 M.E., 1907, Cornell University  
 John D. Van Wagoner.....Utah

## ALLIED ASSOCIATIONS

### ALUMNI ASSOCIATIONS

#### THE GENERAL ASSOCIATION

Officers, 1914-1915

##### *President*

DR. D. OLIN LEECH

##### *Vice-Presidents*

PERCIVAL HALL

E. O. SCHREIBER, JR.

JOHN PAUL EARNEST

E. ROGER BOYLE

DR. M. F. THOMPSON

HENRY W. DRAPER

##### *Secretary*

H. L. HODGKINS

##### *Treasurer*

JOHN B. LARNER

##### *Executive Committee*

DR. D. OLIN LEECH, *Chairman*

HOWARD L. HODGKINS, *Secretary*

L. RUSSELL ALDEN

STEPHEN E. KRAMER

E. ROGER BOYLE

JOHN B. LARNER

E. C. BRANDENBURG

DR. R. E. LAYTON

MISS ELIZABETH V. BROWN

MRS. EDITH COMPTON PAUL

DR. A. W. CUMMINGS

DR. D. W. PRENTISS

HARRY C. DAVIS

E. O. SCHREIBER, JR.

HENRY W. DRAPER

DR. E. G. SEIBERT

JOHN PAUL EARNEST

ELMER STEWART

PERCIVAL HALL

DELOS H. SMITH

H. H. KIMBALL

DR. M. F. THOMPSON

MARK R. WOODWARD

Since its organization in 1821, the University has conferred 8280 degrees upon 6721 persons.

The Secretary of the General Alumni Association, whose office is at the University, endeavors to keep a list of the addresses of all Alumni.



His catalogue now contains the addresses of about 4200 graduates. It is known that about 1400 are dead, and information is lacking in regard to the others. All Alumni are urged to keep the Secretary informed of any change of address or occupation, and to supply information in regard to their fellow Alumni.

#### NEW YORK ALUMNI ASSOCIATION

*President*, FRITZ V. BRIESEN  
*Secretary*, ALMON C. KELLOGG, 30 Broad Street

#### COLORADO ALUMNI ASSOCIATION

*President*, CLARENCE A. BRANDENBURG  
*Secretary*, PAUL M. CLARK, Symes Building, Denver, Colorado

#### SALT LAKE CITY ALUMNI ASSOCIATION

*President*, DR. WILLIAM F. BEER  
*Secretary*, CULBERT L. OLSEN, 305 Judge Building

#### PUGET SOUND ALUMNI ASSOCIATION

*President*, JUDGE H. F. GARRETSON, Tacoma, Washington  
*Secretary*, JOHN ARTHUR, New York Building, Seattle, Washington

#### LOS ANGELES ALUMNI ASSOCIATION

*President*, H. E. HAAS  
*Secretary*, C. R. NAFF, 409 Chamber of Commerce

#### SAN FRANCISCO ALUMNI ASSOCIATION

*President*, MONTAGUE T. MOSES  
*Secretary*, WILEY F. CRIST, Hall of Justice

#### OREGON ALUMNI ASSOCIATION

*President*, H. A. CONNOR, 26 North Front St., Portland, Oregon

#### SPOKANE ALUMNI ASSOCIATION

*President*, CHARLES R. CONNOR  
*Secretary*, THOMAS A. SCOTT, The Rookery

#### MINNESOTA ALUMNI ASSOCIATION

*President*, EDMUND S. DURMENT  
*Secretary*, F. G. STUTZ, West Publishing Company, St. Pau.

#### CHICAGO ALUMNI ASSOCIATION

*President*, CHARLES H. WOOD

#### *Vice-Presidents*

W. N. CROMWELL

JOHN B. MACAULEY

*Secretary and Treasurer*

H. MONROE HUMASON, 105 West Monroe Street

*Board of Governors*

LEWIS T. GREIST	J. C. CARPENTER
GEORGE B. JONES	SEBASTIAN HINTON
J. C. TYSSOWSKI	W. L. POLLARD
FRANK M. WARDEN	R. H. VAN NEST
E. T. LEE	

## THE COLUMBIAN WOMEN

*President*

MISS MARGARET WHITE

*First Vice-President*

MRS. WILLIAM K. BUTLER

*Second Vice-President*

MRS. E. B. TOWNSEND

*Corresponding Secretary*

MISS KATHERINE KOETZ

*Recording Secretary*

MISS ELSIE EUGENIA GREEN

*Treasurer*

MISS ANNA S. HAZELTON

*Historian*

MISS MARGARET AGNES McMAHON

## BOARD OF LADY MANAGERS OF THE UNIVERSITY HOSPITAL

*President*

MRS. ALBERT L. MILLS

*First Vice-President*

MRS. EUGENE A. BYRNES

*Second Vice-President*

MRS. VAN AUKEN MILLS

*Corresponding Secretary*

MRS. J. HALL PILLING

*Recording Secretary*

MISS MARY BRICKENSTEIN

*Treasurer*

MRS. S. E. LEWIS





## DIRECTORY

### OFFICERS OF GOVERNMENT, ADMINISTRATION, AND INSTRUCTION

The number enclosed in brackets indicates the page in this catalogue on which may be found the full name, degree and title of the officer.

ABBE, T. [36].....	1819 M Street
ACKER, G. N. [32].....	913 16th Street
ALBERTSWORTH, E. F. [38].....	7106 Piney Branch Road
ALDEN, L. R. [35].....	809 L Street
ALDERMAN, Z. W. [36].....	Kenois Building
ANDREWS, F. [37].....	Department of Agriculture
ASHBROOK, F. G. [190].....	Department of Agriculture
ASHLEY, R. S. [37].....	1100 M Street
ATHERTON, W. I. [38].....	1100 Vermont Avenue
BARNES, N. P. [33].....	208 Maryland Avenue N.E.
BARTSCH, P. [33].....	2416 14th Street
BASSETT, C. T. [34].....	1409 L Street
BASSLER, R. S. [34].....	U. S. National Museum
BEEKMAN, D. D. [34].....	817 14th Street
BERNHARD, J. W. [37].....	710 14th Street
BEYER, H. G. [28].....	The Marlborough
BIBB, A. B. [33].....	2023 G Street
BISHOP, H. A. [37].....	1913 I Street
BOGAN, I. K. [34].....	246 8th Street N.E.
BOLTON, B. R. [38].....	1319 Q Street
BOLTON, M. [37].....	1832 Jefferson Place
BORDEN, D. L. [37].....	2306 Tracy Place
BORDEN, W. C. [33].....	2306 Tracy Place
BOVEE, J. W. [32].....	The Rochambeau
BOWEN, W. S. [34].....	1339 Connecticut Avenue
BRADBURY, H. M. [185].....	1304 Park Road
BRADBURY, W. H. [185].....	1304 Park Road
BRANDENBURG, E. C. [33].....	1824 Calvert Street
BRICKER, S. [37].....	109 8th Street, S.E.
BRIDE, W. W. [190].....	710 14th Street
BRIGHAM, G. R. [38].....	Smithsonian Institution
BROWN, B. [35].....	806 17th Street



BUCKINGHAM, D. E. [190].	2113 14th Street
BUHRMAN, A. G. [36].	City Hall
BUNZEL, H. H. [185].	The Bachelor
BUTLER, H. K. [185].	229 9th Street S.E.
BUTLER, W. K. [33].	1207 M Street
CALL, A. D. [37].	1820 Newton Street
CAMPBELL, C. B. [28].	1731 Lamont Street
CARMICHAEL, R. B. [32].	818 17th Street
CARR, E. B. [141].	43 Claiborne Apartment
CARR, W. B. [37].	The Raydon Apartment
CARR, W. P. [34].	1418 L Street
CARROLL, M. [33].	3440 34th Place, Cleveland Park
CASTELL, L. B. [38].	1132 6th Street
CERVONN, F. M. [141].	1335 H Street
CHIPMAN, C. N. [36].	606 6th Street S.W.
CHURCH, M. [32].	1608 20th Street
CHURCHILL, G. M. [35].	Library of Congress
CLARKE, F. W. [32].	1612 Riggs Place
CLAYTON, H. T. [190].	2113 14th Street
CLAYTOR, T. A. [32].	1826 R Street
CLEPHANE, W. C. [32].	Wilkins Building
COBB, R. [35].	2025 Kalorama Road
COLLINS, J. H. [38].	Casualty Hospital
CONKLIN, C. B. [35].	1344 R Street
CONSTANTINI, C. L. [36].	21 8th Street N.E.
COPELAND, E. P. [35].	The Rockingham
COPPING, E. J. [38].	1333 H Street
COPPING, J. B. [141].	1325 H Street
COUSINS, S. C. [38].	550 14th Street S.E.
COX, O. C. [37].	1320 11th Street
CRAIG, H. C. [190].	3125 O Street
CRAIG, H. K. [34].	1224 I Street
CRANE, A. B. [34].	1424 K Street
CULLOM, E. [37].	1433 Rhode Island Avenue
CURTIS, H. L. [36].	U. S. Bureau of Standards
DANEMANN, S. [38].	McLachlen Building
DAVIS, C. L. [34].	Dresden Apartment House
DAVIS, G. VON P. [37].	1706 9th Street
DAVIS, H. C. [28].	1006 Massachusetts Avenue
DEFARGES, J. R. [34].	The Laclede Apartment House
DICKERSON, D. G. [38].	2220 Flagden Place
DIETER, L. V. [190].	2113 14th Street
DONNALLY, H. H. [35].	1612 I Street
DOTEN, L. S. [37].	1729 New York Avenue
DOUGHERTY, N. W. [35].	2134 F Street
DULANEY, H. R. [190].	1333 F Street

DUNSTAN, E. V. [34].....	3420 36th Street
EARNEST, J. P. [33].....	2123 N Street
EASTERDAY, H. C. [185].....	700 New Jersey Avenue
EISENBERG, A. A. [190].....	1416 Columbia Road
ELLIOTT, H. R. [35].....	Farragut Apartment House
EUSTIS, W. C. [190].....	1611 H Street
ESSEX, J. J. [190].....	Summit, Chevy Chase, Md.
FANSLER, O. N. [37].....	Department of Agriculture
FERSON, M. L. [34].....	Argyle Apartment House
FILLEBROWN, J. P. [139].....	Stoneleigh Court
FLATHER, W. J. [28].....	Riggs National Bank
FLEMER, L. [185].....	701 Maryland Avenue N.E.
FLOYD, H. B. [185].....	Hirmhurst Apartment House
FOWLE, F. E. [36].....	2919 Q Street
FRANKLIN, E. T. M. [36].....	1315 19th Street
FRANZ, S. I. [33].....	Government Hospital for the Insane
FRASER, E. [34].....	Friendship Heights, Md.
FRENCH, W. J. [36].....	1634 S Street
FULLER, H. G. [36].....	1884 Columbia Road
GEORGE, H. W. [185].....	1413 Rhode Island Avenue
GLUECK, B. [37].....	Government Hospital for the Insane
GOLDEN, E. E. [38].....	Real Estate Trust Building
GORDON, H. H. [36].....	1755 Lamont Street
GORDON, J. H. [28].....	412 5th Street
GREENE, S. H. [38].....	1460 Rhode Island Avenue
GROSS, C. E. [185].....	14th Street and Park Road
GRUBB, C. M. [190].....	2320 Ontario Road
HAGAN, W. L. [37].....	Real Estate Trust Building
HAGNER, F. R. [32].....	Farragut Apartment House
HALL, A. [33].....	Naval Observatory
HALL, M. C. [190].....	2113 14th Street
HARRINGTON, G. T. [37].....	610 Randolph Street
HARRIS, A. L. [35].....	1505 Lamont Street
HAZEN, H. H. [185].....	2141 Wyoming Avenue
HENNING, G. N. [33].....	1728 20th Street
HENRY, F. C. [185].....	703 15th Street
HEWETT, E. L. [37].....	1741 New York Avenue
HICKS, T. [190].....	621½ Park Road
HILL, E. A. [35].....	1221 K Street
HILTON, S. L. [185].....	2140 L Street
HODGKINS, H. G. [36].....	Naval Observatory
HODGKINS, H. L. [32].....	1830 T Street
HOLMES, C. W. [30].....	2024 G Street
HOPKINS, A. [28].....	1826 Massachusetts Avenue
HOPKINS, N. M. [35].....	2128 Bancroft Place
HOPKINS, T. S. [28].....	Hibbs Building



HORNADAY, F. A. [34].....	3509 4th Street
HOUGHTON, J. E. [38].....	1102 14th Street
HOWARD, B. J. [185].....	1366 North Carolina Avenue N.E.
HULL, F. [38].....	The Iowa
HULL, J. A. T. [190].....	1762 N Street
HUMPHREYS, W. J. [33].....	Cosmos Club
HUNTER, O. B. [34].....	George Washington University Hospital
HUNTINGTON, W. H. [37].....	1217 Connecticut Avenue
HYDE, C. W. [36].....	The Alabama
INGERSOLL, E. H. [37].....	2118 3rd Street N.E.
JACKSON, V. B. [36].....	The Brunswick
JOHN, W. C. [37].....	Takoma Park
KALUSOWSKI, H. E. [185].....	808 I Street
KARGER, T. [38].....	2616 Cathedral Avenue
KAYSER, E. L. [38].....	3129 O Street
KELLEY, J. T. [35].....	1312 15th Street
KEMBLE, A. [36].....	Cecil Apartment House
KERFOOT, W. T. [185].....	69 W Street
KERN, R. R. [35].....	The Woodworth
KERR, H. H. [36].....	1742 N Street
KILLINGER, W. C. [36].....	13th and I Streets
KING, A. [35].....	1611 28th Street
KING, W. B. [28].....	728 17th Street
KNAPP, M. A. [28].....	Stoneleigh Court
LADD, J. M. [38].....	134 11th Street S.E.
LaGARDE, L. A. [33].....	2624 Woodley Place
LARNER, J. B. [28].....	900 F Street
LATIMER, J. W. [34].....	Newlands, Chevy Chase, Md.
LAWRENCE, W. F. [34].....	1616 I Street
LAWSON, H. W. [34].....	1117 Vermont Avenue
LAYTON, R. E. [36].....	1311 Wisconsin Avenue
LEECH, F. [34].....	1372 Columbia Road
LEPPER, H. A. [38].....	1620 6th Street
LEWIS, E. [38].....	431 M Street
LEWIS, H. S. [37].....	Emergency Hospital
LINDSAY, J. W. [37].....	2550 14th Street
LISNER, A. [28].....	1723 Massachusetts Avenue
LITTLEHALES, G. W. [33].....	2132 LeRoy Place
LITTLEPAGE, W. H. [38].....	The Alabama
LOCHBOEHLER, H. A. [190].....	3217 Georgia Avenue
LOCKWOOD, J. [190].....	905 New Jersey Avenue
LOWE, E. B. [37].....	2622 Woodley Place
McCray, A. H. [141].....	1100 Vermont Avenue
MacDONALD, G. B. R. [36].....	721 East Capitol Street
MacFARLAND, H. B. F. [28].....	Evans Building
MACKALL, L. [34].....	3044 O Street

McKIMMIE, O. A. M. [34].....	The Rockingham
MacMILLAN, J. T. [36].....	1314 12th Street
McNEIL, H. C. [35].....	1210 Decatur Street
McNEMAR, L. C. [35].....	1817 F Street
MALLORY, W. J. [36].....	1720 Connecticut Avenue
MANN, A. [33].....	Department of Agriculture
MANN, J. T. [39].....	1132 6th Street
MARBURY, W. B. [37].....	1830 Jefferson Place
MARSTELLER, J. P. [37].....	1225 New York Avenue
MARTIN, T. C. [34].....	1725 N Street
MEARNS, W. A. [28].....	2301 S Street
MECHLIN, O. A. [34].....	3203 R Street
MERRILL, G. P. [32].....	U. S. National Museum
MERRILL, W. H. [36].....	1913 14th Street
MILLER, G. B. [33].....	1730 K Street
MILLER, T., Jr. [37].....	1616 7th Street
MOORE, W. C. [35].....	The Wyoming
MOORE, W. L. [33].....	Rockville, Md.
MORCOCK, J. [190].....	2115 14th Street
MORGAN, J. D. [33].....	919 15th Street
MORSE, R. W. [35].....	No. 312, Patent Office
MORTIMER, C. W. [35].....	1434 Harvard Street
MOTT-SMITH, M. C. [35].....	The Kedrick
MULLIGAN, E. W. [38].....	1414 Massachusetts Avenue
MUNCASTER, A. [185].....	482 Louisiana Avenue
MUNROE, C. E. [32].....	2115 S Street
MYERS, R. L. [38].....	111½ N. Pitt Street, Alexandria, Va.
NEUMANN, M. [38].....	707 A Street S.E.
NICHOLS, J. B. [35].....	1321 Rhode Island Avenue
NOYES, T. S. [28].....	1101 Pennsylvania Avenue
ODOR, C. L. [34].....	906 G Street
PAGAN, A. E. [37].....	Columbia Hospital
PAHL, W. L. F. [38].....	Congress Heights, D. C.
PARKS, J. L., Jr. [35].....	The Lenox
PERKINS, H. C. [28].....	1701 Connecticut Avenue
PETER, A. [33].....	Washington Loan and Trust Building
PHILLIPS, G. W. [38].....	612 18th Street
POPE, R. V. [38].....	1340 Meridian Place
POSTLEWAIT, C. M. [39].....	1105 K Street
POTTER, G. M. [190].....	Department of Agriculture
PRENTISS, D. W. [35].....	1213 M Street
PRICE, T. M. [35].....	The Iowa
PUTZKI, P. S. [141].....	1862 California Street
RANDOLPH, B. M. [33].....	The Toronto
REEVES, W. P. [37].....	The Congressional
REICHELDERFER, L. H. [33].....	1721 Connecticut Avenue



RICH, C. W. [37].....	1225 New York Avenue
RICHARDSON, C. W. [32].....	1317 Connecticut Avenue
RICHARDSON, E. E. [33].....	1001 Alabama Avenue, Congress Heights
RICHARDSON, W. S. [185].....	4820 14th Street
RIGGLES, J. L. [35].....	1424 K Street
ROBERTS, J. N. [38].....	1401 6th Street
ROBEY, V. [38].....	Rockville, Md.
ROGERS, J. C. [38].....	3546 13th Street
RUEDIGER, W. C. [33].....	1754 Church Street
RUFFIN, S. [32].....	1335 Connecticut Avenue
RUST, T. L. [36].....	1410 L Street
RUTTER, F. R. [37].....	1442 Belmont Street
SCHMIDT, A. F. W. [33].....	35 Bryant Street
SCHOENFELD, H. [32].....	3448 34th Street, Cleveland Park, D. C.
SCHREIBER, E. O., Jr. [35].....	642 E Street N.E.
SCHWINN, G. H. [36].....	Government Hospital for the Insane
SCOTT, J. R. [38].....	1791 Lanier Place
SEIBERT, E. G. [36].....	1545 I Street
SELBY, J. H. [37].....	1621 Connecticut Avenue
SHANDS, A. R. [32].....	901 16th Street
SHARP, G. M. [34].....	The Rochambeau
SHOEMAKER, C. G. [36].....	826 Connecticut Avenue
SHUTE, D. K. [32].....	1719 DeSales Street
SIMPSON, C. A. [35].....	1219 Connecticut Avenue
SLOAT, J. I. [37].....	The Congressional Apartment
SMALL, W. S. [36].....	1340 Irving Street
SMITH, C. S. [33].....	Takoma Park, D. C.
SMITH, D. G. [37].....	1421 Columbia Road
SMITH, W. F. [37].....	422 7th Street N.E.
SNOWDEN, E. [37].....	1900 S Street
SNYDER, A. A. [33].....	1126 16th Street
SOWERS, W. F. M. [35].....	1707 Massachusetts Avenue
SPEIDEL, F. G. [38].....	2309 1st Street
SPILLAN, H. M. [38].....	1624 I Street
STAFFORD, W. P. [33].....	1725 Lamont Street
STAVELY, A. L. [33].....	1744 M Street
STERNBERG, G. M. [33].....	2005 Massachusetts Avenue
STEWART, M. [39].....	309 Maryland Avenue N.E.
STITT, E. R. [34].....	1708 R Street
STOCKARD, M. [37].....	1627 Lamont Street
STOCKTON, C. H. [28].....	2019 O Street
STONE, E. R. [34].....	The Champlain
STOUT, J. D. [34].....	2918 Georgia Avenue
STUART, A. T. [28].....	The Wyoming
SUPPLEE, E. D. [141].....	311 A Street N.E.
SUTTON, L. H. [37].....	Patent Office

SWETT, O. D. [35].....	15 Grafton Street, Chevy Chase, Md.
SWISHER, C. C. [32].....	Cosmos Club
SZE, T. P. [141].....	2750 14th Street
TAYLOR, J. W. [36].....	1616 I Street
THOMPSON, H. C. [32].....	Real Estate Trust Building
THOMPSON, J. F. [32].....	The Rochambeau
TIBBETTS, A. P. [36].....	The Laclede
TITUS, E. W. [36].....	1730 N Street
TRIMBLE, R. S. [37].....	722 18th Street
TUCKERMAN, W. R. [28].....	Union Savings Bank
TURNER, J. P. [190].....	918 O Street
UNDERWOOD, H. [38].....	2551 37th Street
VAN ORSTRAND, C. E. [36].....	1607 31st Street
VAN VLECK, W. C. [37].....	4107 Ellicott Street
VILLAMIL, J. R. [38].....	24 Grant Street
WAGNER, S. M. [185].....	85 H Street
WALTON, J. R. [33].....	724 9th Street
WEAKLEY, A. D. [36].....	1339 K Street
WELLER, F. P. [185].....	755 8th Street S.E.
WETMORE, A. [37].....	Department of Agriculture
WHITE, C. S. [33].....	911 16th Street
WHITE, H. [28].....	1624 Crescent Place
WHITE, W. A. [33].....	Government Hospital for the Insane
WILBUR, W. A. [32].....	1205 Columbia Road
WOLFE, A. S. [34].....	710 14th Street
WOODHULL, M. V. Z. [28].....	2033 G Street
WOODWARD, M. R. [36].....	408 Navy Building
WOODWARD, W. C. [33].....	1782 Lanier Place
YARROW, H. C. [32].....	926 17th Street
YOUNG, H. C. [36].....	3104 N Street





## INDEX

- Academic year, 27, 148.  
 Administrative officers, 30.  
 Admission requirements:  
   Schedule, 51.  
   Columbian College, 70.  
   College of Engineering, 80.  
   Teachers College, 85.  
   School of Graduate Studies, 45.  
   Law School, 127.  
   Medical School, 145.  
   Dental School, 171.  
   National College of Pharmacy, 185.  
   College of Veterinary Medicine, 191.  
 Alumni Associations, 289.  
 Anatomy, 181, 173, 193.  
 Applied Mathematics, 101.  
 Archaeology, 89.  
 Architecture, 89.  
 Arts and Sciences, Department of, 43.  
   School of Graduate Studies, 45.  
   The Colleges, 51.  
   Columbian College, 70.  
   College of Engineering, 80.  
   Teachers College, 85.  
   Instruction, 88.  
   Scholarships and Prizes, 62.  
   Fees, 68.  
   Students, 205.  
 Art, History of, 89.  
 Associated Colleges, 184.  
   National College of Pharmacy, 185.  
   College of Veterinary Medicine, 190.  
 Astro-Physics, 91.  
 Bacteriology, 155, 175, 196.  
 Biological Science, 91.  
 Botany, 92.  
 By-Laws, 20.  
 Chapel, 68.  
 Charter, 9.  
 Chemistry, 93, 153, 173, 183, 194.  
 Civil Engineering, 102.  
 Classical Languages, 95.  
 Columbian College, 70.  
   Faculty, 45.  
   Political Science Courses, 73.  
   Pre-Medical Course, 76.  
   Combination Courses, 77.  
   Scholarships and Prizes, 62.  
   Fees, 68.  
   Students, 218.  
 Columbian Women, 291.  
   Loan Fund, 63.  
 Commencement, 40.  
 Commercial Geography, 97.  
 Consular Service, 73.  
 Council, President's, 31.  
 Degrees, Conferred, 281.  
 Degrees, Requirements for  
   A.B., 70, 86, 135, 147.  
   B.S. in Chem., 73.  
   B.S. in Med., 77, 146.  
   B.S. in C.E., 81.  
   B.S. in E.E., 81.  
   B.S. in M.E., 81, 83.  
   B.S. in Arab., 81, 94.  
   A.M., S.M., 46.  
   C.E., E.E., M.E., 47.  
   Ph.D., 47.  
   LL.B., 129, 134.  
   LL.M., 135.  
   M.P.L., 135.  
   M.D., 167.  
   D.D.S., 180.  
   Phar.D., 187.  
   D.V.M., 200.  
   Combination Courses, 76, 78, 135.  
 Dental Infirmary, 178.  
 Dental School, 170.  
   Students, 272.  
 Dermatology, 159.  
 Diagnosis, Physical, 159.  
 Dietetics, 155.  
 Diplomacy, 120.  
 Dispensary Staff, 140.  
 Doctorate Disputation, 49.  
 Drawing, 89.  
 Economics, 96.  
 Education, 99.  
 Electrical Engineering, 101.  
 Engineering, College of, 80.  
   Faculty, 45.  
   Scholarships and Prizes, 62.  
   Fees, 68.  
   Students, 234.  
 Engineering, subject, 101.  
   Civil, 102.  
   Electrical, 104.  
   Mechanical, 107.  
 English, 109.  
 Faculties:  
   University teaching staff, 32.  
   Arts and Sciences, 43.  
   School of Graduate Studies, 45.  
   Columbian College, 45.  
   College of Engineering, 45.  
   Teachers College, 45.  
   Law School, 124.  
   Medical School, 138.  
   Dental School, 170.  
   National College of Pharmacy, 185.  
   College of Veterinary Medicine, 190.  
   Summary, 280.  
 Fees:  
   Arts and Sciences, 68.  
   Law School, 136.  
   Medical School, 168.  
   Dental School, 181.  
   National College of Pharmacy, 189.  
   College of Veterinary Medicine, 201.  
 Finance, 97.  
 French, 121.  
 Genito-Urinary Diseases, 162.  
 Geographical Distribution, 279.  
 Geography, Commercial, 97.  
 Geology, 109.  
 German, 111.  
 Graduate Studies, School of, 45.  
   Fees, 68.  
   Students, 205.  
 Graphics, 106.





VOLUME XIV

NUMBER 2

# George Washington University Bulletin

A Historical Sketch of  
George Washington University  
Delivered April 20, 1915, before the  
Columbia Historical Society

By  
CHARLES HERBERT STOCKTON



JUNE, 1915

PUBLISHED BY THE UNIVERSITY AT WASHINGTON, D. C., MARCH,  
JUNE, OCTOBER, AND DECEMBER

Entered October 6th, 1904, at Washington, D. C., as second-class  
matter under Act of Congress of July 16th, 1894





A HISTORICAL SKETCH  
OF  
GEORGE WASHINGTON UNIVERSITY  
WASHINGTON, D. C.

Formerly known as Columbian University  
and Columbian College; and Biographical  
Sketches

The legislative acts concerned with the establishment of the seat of government of the District of Columbia consisted of the Act of the General Assembly of Maryland of December 22, 1788, and the Act of the General Assembly of Virginia of December 3, 1789 and the Act of the Congress of the United States of July 16, 1791, accepting grants of territory conveyed in the two acts of the General Assemblies of Maryland and Virginia just referred to.

Before the final acceptance by Congress of the grants of the two states of Maryland and Virginia and the final determination as to the seat of the general government, President Washington addressed Congress in 1790 in a message treating of the subject of a system of national education. Washington was impressed especially with the fact that the resort for higher education as collegiate education was then called, to the English universities no longer met the needs of the new nation, and its democratic principles and society.

In his message he said: "Whether this desirable object would be best promoted by offering aid to seminaries of learning already established, by the institution of a national university, or by any other expedients, will be well worthy of a place in the deliberations of the legislature."

The Commissioners of the District of Columbia on February 18, 1795, informed Washington in answer to his offer of a gift for a National University in his life time (which was similar to what he eventually left in his will), that subject to his approval they had chosen a site in the District for a National University. I might mention here that the par value of the fifty shares of the Potomac Company offered by Washington as a gift for this purpose were valued then at \$22,200. The site referred to which met with Washington's approval was the one bounded by 23d and 25th Streets and E Street N. W., the Potomac at that time forming the southern boundary. In after years this site was occupied



by the Naval Observatory Buildings, and is now occupied by the Naval Medical School and its Hospital and residences near by. This site had in the earliest days of the District been proposed as a site for a fort and barracks and used as a camp for troops afterwards and was known first as Peter's Hill after the well known and still existing family of Peter of Georgetown and the District and afterwards as Camp Hill. By the filling up of the flats of the Potomac its boundary has been extended to B Street and it now borders the Potomac Park and Speedway.

At a later date, near the close of his second term, Washington, more than ever convinced of the desirability of a national university as a means of higher education, made his last appeal to Congress, in which he said: "Its desirableness has so constantly increased with every new view that I have taken of the subject, that I cannot omit the opportunity of, once for all, recalling your attention to it." Among the expected advantages he suggests the following: "The assimilation of the principles, opinions and manners of our countrymen, by the common education of a portion of our youth from every quarter." "The more homogeneous our citizens can be made in these particulars, the greater will be the prospect of permanent union." As a testimony of his deep and growing interest in this enterprise he left at his death in December, 1799, this bequest in his last will and testament: "I give the fifty shares which I hold in the Potomac Company towards the endowment of a University, to be established within the limits of the District of Columbia, under the auspices of the General Government, if that Government should incline to extend a fostering hand towards it."

President Jefferson having views differing from those of Washington as to the power of Congress to provide for such general objects, commends, nevertheless, this recommendation of Washington in his message to Congress of December 2, 1806, urging it on their present consideration. President Madison early in his first term of office earnestly presented the same object in his message of December 5, 1810. He enlarges upon the reasons which prevailed with Washington in the following words: "Such an institution, though local in its legal character, would be universal in its beneficial effects. By enlightening the opinions, by expanding the patriotism, and by assimilating the principles, the sentiments, and the manners of those who might resort to this temple of science, to be re-distributed in due time through every part of the community, sources of jealousy and prejudice would be diminished, the features of national character would be multiplied, and greater extent given to social harmony. But above all, a well constituted seminary in the centre of the nation, is recommended by the consideration, that the additional instruction emanating from it, would contribute not less to strengthen the foundations, than to adorn the structure of our free and happy system of government."

At the close of the war in his message of December 5, 1815, President Madison returns to this subject and reiterates his appeal as follows:

"Such an institution claims the patronage of Congress as a monument of their solicitude for the advancement of knowledge, without which the blessings of liberty cannot be fully enjoyed, or long preserved; as a model, instructive in the formation of other seminaries; as a nursery of enlightened preceptors; and as a central resort of youth and genius from every part of their country, diffusing on their return, examples of those national feelings, those liberal sentiments, and those congenial manners which contribute cement to our Union, and strength to the great political fabric, of which that is the foundation."

From this it can be seen that the intention of Washington, Jefferson and Madison was not to establish an institution for narrow, isolated research, but to build first of all an institution from which graduates could go to every part of the Union prepared to engage in the ordinary professions and followings of life. So as citizen leaders in their communities they would diffuse the results of their enlightened education and in this way make more homogeneous the various nationalities of the country and assimilate by their patriotism all sections of the country and all of the newly arrived from other communities of the world which had been duly foresworn in their oath of allegiance and naturalization.

The long entertained opinions of such men could not have been hastily conceived and nothing but the differing views of the national Congress as to the power of the general government to act in the matter and the pressure of other claims, could have led to the continued neglect of these repeated executive recommendations. Washington's legacy of shares of the Potomac Company had in the meantime become valueless by the failure of the Company. Jefferson, after his presidency accomplished for his state in the University of Virginia what he despaired of for the nation, and since Madison's day private enterprise has been left to meet a want which public patronage would not assume of itself, though it has at times in a meagre way fostered such enterprise.

While these appeals were being made in 1792, shortly after the establishment of the constitutional government of the United States, a college was established at Georgetown in the District of Columbia, under the auspices of the Roman Catholic order of Jesuits, Georgetown being then a rival of Alexandria, and near to the former residence of Bishop Carroll. This college, now known as the Georgetown University, was established by the Archbishop Carroll and was for the times under consideration liberally endowed. It furnished for twenty-five years the needs of education for the residents of Washington and the South Atlantic States of that communion. Since then the Gonzaga College, and the Catholic University have been also established for such needs hereabouts and elsewhere.

To these institutions have been added the Columbian University, now the George Washington University, a non-sectarian institution for white people, while the Howard University, largely aided by the government meets the requirements of the colored people of African descent in this



part of the United States. Of late a post graduate institution known as the American University under the auspices of the Methodist denomination has been established as a school for research and advanced scholarship.

About the year 1817 during the administration of President Monroe, the Rev. Luther Rice, agent of the Baptist General Convention of the United States, conceived the idea of founding a college in the City of Washington. In 1819 a lot of ground north of Washington, the site afterwards occupied by Columbian College, embracing nearly forty-seven acres extending about one-half a mile northwards from Boundary Street between 14th and 15th streets, was purchased by Mr. Rice for a sum of about \$7000. Mr. Rice reported to the Tri-Annual Baptist Convention at their meeting in 1820 that this purchase was made to be presented to that body, to promote the education of the ministry and ultimately for the formation of a college under the direction of the Baptist General Convention.

Mr. Rice was formerly a missionary abroad and seemed to be indefatigable in his efforts for the various causes which he undertook. A prominent cause dear to his heart seemed to be that of education. A journal of his efforts before the establishment of the College exists in the archives of the University. It contains his receipts and expenditures with a very concise account of his wanderings which were largely on horse back or in a wagon. The time of the journal extends from 1815 to 1819; and the country visited as an itinerant agent, collector, and missionary, covered New England, New York, Pennsylvania, New Jersey, Maryland, Delaware, Ohio, Kentucky, Tennessee, Virginia and North Carolina.

On October 30, 1816, Mr. Rice made the following entries in his journal which are quoted as characteristic of his remarks and travels. "McNeill's Store, Moore County, North Carolina, at Brother Archibald McNeill's. Read through a historical account of St. Helena and the manner of Napoleon's being conveyed to it, last evening. Finished the long letter to my brother this morning. Received donation from Brother McNeill and from his children.—To dinner and baiting—\$.50  
\* \* \* \*

"October 31. Mountain Creek, Richmond County, N. C., at Brother William Bostick. Finding I could not be supplied with a candle at Esq. Martin's where I first put up last evening, I came here and finished a letter to Brother Cheesmann. Had an ill night. Wrote this morning one letter. Proceed to Fair ground 4 miles, to Hedgecock Creek 9 miles. Here are a saw-mill and a grist-mill—to Rockingham, 1 mile. Richmond Court House—to Solomon's Creek 8 miles, to Stewartstown 4 miles, in all 26 miles today. A pleasant day."

The Baptist Convention was so favorably impressed with the project of Mr. Rice of locating an educational institution at Washington, that to enable them to embrace it in their operation they proceeded at once

to adapt their constitution to the undertaking and passed resolutions accepting the proposed site.

In the meantime a charter was obtained from Congress by an act approved by President Monroe, February 1, 1821. It gave powers to the University trustees and faculty allowing the organization of academic and professional schools, and granting of certificates of attainment and diplomas of graduation in the several departments. One of the provisions of the charter was that "Persons of every religious denomination shall be capable of being elected as trustees; nor shall any person either as President, professor, tutor, or pupil, be refused admittance into said college, or be denied any of its privileges, immunities; or advantages thereof on account of his sentiments in matters of religion." In pursuance of these provisions the several departments of the college—preparatory, collegiate, theological, law and medical—were soon organized. The main building for the college, 117 feet long by 47 wide, was begun early in 1820 and was finished sufficiently in 1822 at a cost of \$35,000 to allow of the opening of the college. The college building was at the time considered to be central and about half an hour's walk from the White House, from the Capitol, from the Smithsonian Institution, from the then National Observatory, and generally from the public buildings in the City of Washington. The building was a brick edifice, four stories high, including the basement and attic, with sufficient room to accommodate one hundred students. In addition there were three other brick buildings, one occupied by the President and his family, another by the steward of the college, and the other was used as a hall for the philosophical apparatus belonging to the college and also housed the preparatory department of the institution. Although most of the funds of the college were obtained by Mr. Rice, the agent, from members of the Baptist denomination, a number of personal donations and expressions of interest were received from men of eminence at home and abroad: from such men as Moses Stuart, John Quincy Adams, Jno. C. Calhoun, Wm. H. Crawford, and Richard Rush at home and kindred spirits including The Bishop of Durham, Joseph John Gurney, William Wilberforce, Lord Ashburton and others in what was then regarded as the mother country. Concerning the institution of this college, President Monroe states, "There is good reason to believe that the hopes of those who have so patriotically contributed to advance it to its present stage, will not be disappointed. Its commencement will be under circumstances very favorable to its success. Its position, on the high grounds north of the city, is remarkably healthy. The act of incorporation is well digested, looks to the proper objects, and grants the powers well adapted to their attainment."

The opening of the college is thus described in the *National Intelligencer* of January 15, 1822, under the heading of "Columbian College." It says: "The inauguration of the faculty took place at the institution in College Hall, January 9. At ten o'clock a.m. the procession formed at



the house of Professor Chase and moved to the College Chapel. The solemnities were introduced by prayer by the Rev. Burgess Allison, D.D., the Chaplain of Congress, one of the vice-presidents of the General (Baptist) Convention; the president of the body, the Rev. Robert B. Semple, of Virginia, not having been able to attend. The act of incorporation passed at the last session of Congress was read, and from the records of the trustees the elections respectively of the members of the faculty. The Rev. Obadiah B. Brown, President of the Board of Trustees then rose and addressed the President of the College, the Rev. Dr. William Staughton, in a few but very appropriate observations, presented him with the keys of the edifice and invested him with the prerogatives of his office, and successively greeted by the proper attributes the various members of the faculty \* \* \* This was followed by an address from the President, the Rev. Dr. Staughton, the merits of which cannot be too highly appreciated. The crowded audience, among whom were several of the heads of the departments, and of both houses of Congress, manifestly experienced the greatest satisfaction."

The situation of the new college on College Hill was said at the time to afford a view which was very beautiful. Alexandria, Washington and Georgetown were in full view. The Capitol, the White House and other public buildings could be plainly seen from the windows of the rooms of the students. The view down the Potomac in exceptional circumstances included Mount Vernon.

The College opened with 39 students, which number increased until more than 250 had been received. The library was obtained principally at first in England and Germany and numbered between three and four thousand volumes. At the institution of the College a very interesting letter was received from President Monroe giving expression of his personal confidence and hope for its success. At a later date, John Quincy Adams became its special friend and patron; assisting it with a loan of nearly \$20,000 in its time of need, of which he relinquished as a donation the sum of \$7000; and during his presidency, he frequently visited the College and watched its progress.

The Medical Department was begun in March, 1825, soon after the establishment of the College under the conduct of Thomas Sewall, M.D., and occupying at first a building erected by the Professors themselves, was granted afterwards the occupancy of rooms in and the care of, the United States Infirmary, which building was consumed by fire while in use afterwards as a military hospital during the late war, the Medical Department having then the use of the building lately occupied by the Surgical Museum, and given by Mr. W. W. Corcoran.

The first commencement of Columbian College was held on the 15th of December, 1824, the President of the United States, the Secretaries of State, of War and of the Navy and leading members of both houses of Congress being present. General LaFayette of Revolutionary fame, then on his visit to the United States, was present at these exercises.

At a later hour a formal address of welcome was made to General LaFayette by the President of the College, after which the General and his suite, with the Secretary of State, the Hon. John Quincy Adams, the Secretary of War, the Hon. John C. Calhoun and the Speaker of the House of Representatives, the Hon. Henry Clay, together with other distinguished citizens, dined with the Board of Trustees, among whom was Postmaster General Meigs, and the members of the Faculty of the College at the house of President Staughton.

The Law Department was organized in 1826, the Hon. William T. Carroll and Mr. Justice Cranch being its first professors. It was discontinued on account of the financial embarrassments of the College and was not revived until 1865. A Theological School also was founded, but was soon after removed to Newton, Massachusetts, where it now flourishes. The only aid from public sources ever received for the College, or as a matter of fact, the University, was a grant of \$25,000 in city lots, made by Congress in 1832, during the presidency of Andrew Jackson; the Jesuit College at Georgetown obtaining a similar gratuity at the same time. The few lots remaining in possession of the University are now valued at the same amount.

More serious were the financial difficulties. Though there had been many contributions, the expenses had been heavy in the construction and equipment of suitable buildings and in the payment of salaries and other current expenses. The receipts from tuition fees were entirely inadequate to meet the regular expenses, and, with no productive endowment, an indebtedness was sure to arise and to grow. The plans of the projectors were on a more liberal scale than the contributions and in 1826 the Baptist Convention withdrew its connection with the College. In 1827 the Faculty resigned in a body and the exercises were suspended. In the spring of 1828, however, the College reopened and from that date its progress has been steady, if at times slow. For the first fifteen years there was indeed a constant struggle for existence rather than for progress, and only the continued exertions and self-denying labors of Trustees and Faculty kept the College alive.

Yet during all this time faithful and learned Professors, serving for, meagre salaries, and refusing more liberal offers from other institutions, imparted instructions to students whose zeal and abilities have been proven by the honorable stations they have since attained in the service of the Church and the State.

Dr. Staughton resigned the presidency in 1827, and in 1828 the Rev. Stephen Chapin, D.D., was chosen as his successor.

On the 25th of September, 1836, occurred the death of the Rev. Luther Rice, the man to whom, more than any other, the founding of the College was due.

In the tribute paid to his memory by the Board of Trustees it was gratefully recognized that the College was "mainly indebted for its existence to his generous and laborious efforts," and that in the days of



its "deepest adversity" it had been "sustained by his unwearied and persevering assiduity more than by any other means." It was added: "No discouragement could ever damp his zeal, no opposition could allay his ardor for its prosperity." Resolutions of respect for his memory were adopted and the President of the College was requested to deliver an obituary discourse in honor of his life, character, and services.

President Chapin resigned in 1841, after an administration of thirteen years, during which the College gradually escaped from the burdens of distrust and debt, under which it was staggering when he accepted the Presidency.

In 1843, the Rev. Joel S. Bacon, D.D., became President. At this time the College was freed from debt, though it had no endowment. Under President Bacon the collection of a permanent endowment was commenced, and efforts to increase that endowment have been continued during the succeeding administrations. Dr. Bacon having resigned the Presidency in 1854, the Rev. Dr. Binney, a returned missionary from Burma was chosen to succeed him. He engaged to hold the office for only a brief term, and gave place in 1859 to the Rev. George W. Samson, D.D., whose difficult task it was, with the aid of his colleagues, to carry the institution through the time and trials of the Civil War.

At the outbreak of the war the number of students in attendance was greater than at any previous period, but most of them soon left, principally for the South, and shortly afterwards the College buildings were occupied by the Government for hospital purposes. The College exercises, however, were not suspended, and the few students who continued in attendance received able instruction in the class rooms.

The end of the Civil War brought a reunion in Columbian College as well as in the country at large. A number of students and instructors came to the College from the military forces of the South. Among the latter was Mr. William L. Wilson, a previous graduate, who wore his gray uniform for some time as instructor in the class room. Mr. Wilson became afterwards an Overseer of the College and a leading figure in political life both as a member of the House of Representatives from West Virginia and as Postmaster-General in the Cabinet of President Cleveland. He was a charming and cultivated gentleman in all positions of life and died as President of the Washington and Lee University in Virginia.

In 1867 the catalogue of the College showed a decided increase since the stormy times of the Civil War, there being twenty-six instructors and four hundred and thirty-nine students in all. From the foundation of the Columbian College in 1821 down to 1871, the end of President Samson's régime, the whole number of students graduated from all departments was 1184 in fifty years, being a yearly average of less than twenty-four. Dr. Welling speaks of the Rev. Dr. Samson's term as President as one in which during a time of unexampled storm and pressure "he had lengthened its cords as well as strengthened its stakes."

The Law School had been successfully re-established during his administration. Mr. W. W. Corcoran had presented a Medical School building to the University and Mr. Amos Kendall, Postmaster-General under Jackson, had founded the Kendall Scholarships. In addition before the end of Dr. Samson's term a comprehensive scheme of collegiate reconstruction had been adopted by the Board of Trustees. At the time of Dr. Samson's resignation in July 22, 1871, a committee was appointed by the Board of Trustees to offer the Presidency of the College to Dr. James C. Welling, then Professor of Belles-Lettres in Princeton College, a former resident of Washington.

On the 25th of July, 1871, the Legislative Assembly of the District of Columbia amended by law the Charter of the Columbian College so that the Board of Trustees became a self-perpetuating body.

On the 10th of August, 1871, Professor Welling accepted the Presidency of the Columbian College and on the 7th of October, 1872, recommended immediate measures for raising a permanent endowment fund of \$250,000. Mr. W. W. Corcoran, President of the Board of Trustees, proposed to give the Trinidad Estate of 152 acres immediately adjoining the city of Washington as his contribution to the permanent endowment of the College. This when sold became the nucleus of what is known as the Corcoran Endowment Fund. Mr. Corcoran with Mr. John Withers of Alexandria, remain today as the only large benefactors of Columbian College and University. On the 27th of January, 1873, the Trustees were authorized by the Corporation to sell the property on College Hill and to locate all of the departments of the College in the heart of Washington. On the March following the name of the institution was changed by Act of Congress to the *Columbian University*. At that time the College and University consisted of the

College proper with an enrolment of.....	40
Law School with an enrolment of.....	103
Medical School with an enrolment of.....	48
and a Preparatory School with an enrolment of.....	75

Making a total of the College and allied schools of 266 students.

In 1884 the new building erected at 15th and H Streets, N. W., being completed, the University in its departments of the College proper, the Law and Scientific Schools, took possession of this structure. The Chemical Laboratories were added from time to time and formed an extensive lateral annex on the south line of the lot, being separated from the main building by a heavy brick wall.

On June 7, 1882, a new preparatory school building was authorized and subsequently erected on H Street between 13th and 14th Streets and is now a part of the University Hospital, the preparatory school having been discontinued as a part of the University in 1897, there being no necessity for its continuance as a part of the College and University system in the face of the excellent High Schools of the District.



The grounds on College Hill, the original site of the College, extended along 14th Street from Florida Avenue to Columbia Road. Sales of this property had been made in three periods. The south sixteen acres were sold in sub-divided building lots beginning about 1868. Total receipts were about \$65,000. The north sixteen acres were sold in 1882 for \$50,000. The remainder was sold in 1883 for \$87,500. Details concerning this are given in the Treasurer's report for 1886.

On October 1, 1884, the Corcoran Scientific School was established and inaugurated.

On March 15, 1885, the Admiral Powell Scholarships for those desiring entry into the Navy or the Mercantile Marine were established on the foundation of a bequest made to the University by Admiral Levin M. Powell, of the United States Navy.

On June 15, 1885, Mr. Wm. W. Corcoran gave to the University a lot of ground in the rear of the Medical College building with a view to the eventual extension of that building. The Medical School was and still is situated on H Street between 13th and 14th Streets. In October, 1887, the Dental School was established in connection with the Medical College, and housed in the same building.

February 24, 1888, Mr. Wm. W. Corcoran, the President of the Corporation since 1869, died. He was during that period a constant benefactor to the College and University and it is hoped that his name will be permanently linked with the University, not only by a restoration of the Corcoran Endowment Fund to its full value, but by naming some dignified structure in the future after this generous benefactor, friend and official of the institution.

Although the University from its institution until 1904 had been more or less under the control of the Baptist denomination, and the President of the Institution was a member of that denomination, it received but a poor and vacillating support financially from that denomination. After the separation of the Baptists into Northern and Southern bodies, it suffered accordingly in its contributions. Its greatest contributor was a member of the Episcopal Church—Mr. W. W. Corcoran—and it drifted away so much from the Baptist denomination that in December 27, 1888, it was determined by President Welling to bring the University to the attention of a newly formed Baptist Education Society. On May 18, 1889, a committee of the Board of Managers of that Society made a report to the Board which on October 2, 1889, adopted the report and in it states that "the effort of the Trustees and overseers of the University to secure an adequate endowment of the institution should be and is commended to the favorable consideration of the denomination."

The effect of this appeal and commendation does not seem to have been of much consequence for the University which went on in its usual way. In 1893 the School of Graduate Studies was organized under the charge of Dean Munroe, who was also Professor of Chemistry of the University and who remains in both capacities at the present day.

President Welling resigned from the Presidency of the Columbian University June 18, 1894, and died shortly afterwards. His career was the most successful one up to that time and extended for a period of twenty-three years, the longest term held by any president of the College or University since its institution. The first endowment of the University was made in response to his efforts. The University grew from a college to a university in fact during his long term and he left behind him the memory of an agreeable and accomplished scholar, a public spirited resident of Washington, whose life has been identified with the city with much distinction not only in social life but also in his civic and national services.

The Rev. Dr. S. H. Greene of Calvary Baptist Church, of the city acted as President from the departure of Dr. Welling until the Rev. B. L. Whitman, D.D., was elected to succeed Dr. Welling, July 1, 1895. Dr. Whitman had been previously the President of Colby University in the state of Maine. He was a man of fine presence and an eloquent preacher of the Baptist denomination and not unnaturally after a short term returned to parochial life.

In 1898 the Law School building was erected adjacent to the College building at 15th and H Streets, N. W. The same year Congress amended the charter by an Act which required that two-thirds of the Trustees of the University and the President of the University shall be members of regular Baptist churches. The overseers were abolished and the Trustees were divided into three classes of seven each.

Dr. Whitman resigned on January 19, 1900, to take effect April 1, 1900. From that date until June 18, 1902, Dr. S. H. Greene again acted as President of the University. On the latter date Dr. C. W. Needham, a layman, a member of the District bar, who had been Dean of the Law School was elected President of the University.

In 1904, Congress passed an Act restoring the non-denominational character of the institution and permitting a change in its name. In 1902 the New Medical School building had been finished and a very considerable addition made to its hospital. The same year the Columbian College, the Corcoran Scientific School, and the School of Graduate Studies were merged into one Department of Arts and Sciences. In 1903 conferences were held between the representatives of the Washington Memorial Institution, the George Washington Memorial Association, which had been incorporated in 1898, and of the Columbian University with a view to combine and form a Memorial Institution and Hall bearing the name of George Washington for graduate work and research and for coöperation in such work. For some time the name Columbian had been confused with that of Columbia College and University in New York, making such a change desirable for that among other reasons.

On September 1, 1904, a proposition of the George Washington Memorial Association that Columbian University change its name to



that of the George Washington University was accepted by the Board of Trustees. As previously mentioned on January 23, this year, Congress passed an act making the University non-sectarian and giving the Board of Trustees power to change its name. A proposition from the George Washington Memorial Association had been made about that time to erect the Memorial Building at a cost of \$500,000 to be used for graduate study and scientific research.

About this time, however, Mr. Andrew Carnegie established an Institute for Scientific Research, to be placed in Washington, D. C., with a munificent endowment, and covering the field of research proposed by the Memorial Association. This caused the abandonment of the project for the erection of the George Washington Memorial Hall, which had however advanced so far as the adoption of plans for this and other University buildings, prepared by Messrs. George B. Post and Sons, architects, of New York City.

The first convocation of the newly named George Washington University took place on February 22, 1905. In 1905 an Act of Congress was passed allowing the incorporation of colleges with financial autonomy to be affiliated with the University. Under this act the National College of Pharmacy and the College of Veterinary Medicine were subsequently organized and affiliated. In 1907 the College of Political Sciences was formed as a separate school in the University and during the same year the Division of Education was also formed. At a later period the College of Political Sciences was amalgamated with the College of Arts and Sciences under the revived name of Columbian College, while the Division of Education became the Teachers College of the present day.

The catalogue for 1908 shows in the Department of Arts and Sciences for that year 643 students. In the professional departments there were

198 in the Department of Medicine  
 52 in the Department of Dentistry  
 328 in the Department of Law  
 61 in the College of Pharmacy

---

1282 total  
 less 24 duplicates

---

1258 students in all

In 1910 and 1911 the Board of Trustees of the University drew up regulations providing for the representation of the alumni on the Board of Trustees by six of the alumni of the University, holders of any degree, honorary or in course, of not less than ten years standing, the voters being holders of any degree of not less than three years standing. These regulations have gone into effect and six out of the twenty-one members of the Board of Trustees are composed of elected representatives of the alumni of the University.

The division of Architecture now existing in the College of Engineering, takes the place of the College of Architecture formerly existing as a part of the University. It has always secured the interest of the local architects and has received at times generous aid from them. The architectural students for 1914-15, so far number 20, who are candidates for degrees while there are in addition 23 who are taking special courses in Architecture.

The original charter of the Columbian College provided that the records of the proceedings, finances, etc. of the College should be open to the inspection or examination of the Attorney-General of the United States. On April 25, 1910, the House of Representatives requested such examination by the Office of the Attorney General. On June 2, 1910, the Attorney General made a preliminary report upon the financial affairs of the University and found that the expenses of the University had exceeded its income which resulted in the impairment of some of the endowment funds of the University and a very considerable indebtedness. A final report was made upon this subject by the Department of Justice on December 6, 1910.

On August 31, 1910, Dr. Charles W. Needham resigned as President of the University. Admiral Charles H. Stockton, LL.D., U.S.N. retired, was elected as Acting President from the Board of Trustees on August 31, 1910, and elected President of the University on November 30, 1910. In the meantime a re-organization of the University and reduction of the expenditures was effected which was followed by a sale of the property at 15th and H Streets, N. W. The Law School was moved to the Masonic Temple building at 13th and H Streets being placed in the upper stories of that edifice. The remaining College departments of Arts and Sciences except that of Chemistry, were moved to a series of buildings on I Street between 16th Street and Vermont Avenue. The Medical and Dental Schools with the Department of Chemistry remained established in the University building on H Street between 13th and 14th Streets, N. W. The Associated Schools remained in the buildings previously occupied by them.

In 1912 the Departments in the I Street buildings were removed to their present quarters on G Street between 20th and 21st Streets, which were at first rented but the following year were purchased by the University. Since then an Engineering Laboratory has been erected in the rear of the building just mentioned and other property in the vicinity acquired or rented. Two buildings at 13th and L Streets have been also acquired by the University for a Nurses Home through the efforts of the Board of Lady Managers of the University Hospital.

A provision was made in 1910 for the impairments of the endowment funds which had occurred at various times from the earliest days of Columbian College until 1910 by a deed of trust upon the most valuable property of the University, on H Street, N. W., upon which the Medical and Dental Schools and the University Hospital are now placed.



The financial condition of the University is now good, there being a small but effective endowment fund, considerable property on G Street and elsewhere, besides the H Street property and Law, Medical and Arts and Sciences libraries amounting to over 48,000 volumes, an excellent teaching plant and enrolment up to April 1st of this year of 1915, of 1788 students in all of the Departments. This is the greatest enrolment in the history of the University.

This enrolment is divided among the various schools of the University as follows:

Graduate School.....	96
Columbian College.....	594
Engineering.....	219
Teachers College.....	141
Law.....	400
Medicine.....	147
Dentistry.....	109
Pharmacy.....	64
Veterinary.....	40
	<hr/>
	1810
less duplicates.....	22
	<hr/>
	1788

Of this number about seventy-five per cent attend at the late hours after 5 p. m. and 395 of the total are women. Since its founding in 1821 the University has conferred 8261 degrees upon 6707 persons.

#### CO-EDUCATIONAL MOVEMENT

In 1881 when the question of a re-organization and expansion of the University came under discussion it was suggested by the Committee appointed for that purpose, that women should be admitted to all schools and departments of the University on the recommendation of a majority of the Faculties in each school and subject to the approval of the Corporation.

In 1884 after prolonged consideration, a bare majority of the Faculty of the Medical School favored the admission of women to the Medical School and the first woman graduate received a diploma in March, 1887. This graduate was Mrs. Clara Bliss Hines, now Mrs. Finley.

In 1884, when the Corcoran Scientific School was opened, women were admitted to it.

In the Columbian College minutes, September 24, 1888, the following minute appears:

"Voted that Miss Thurston might enter the College course by paying the matriculation fee and standing examinations once a month with each of the members of the Faculty."

January, 1889, Columbian College minutes:

"Voted to permit Miss Thurston to have her examinations at her home."

September, 1889, Columbian College minutes:

"Voted that the lady students be granted the privilege of using a room in the University building for the purpose of organizing a literary society in case they request it."

On June 16, 1890, the following resolution was passed by the Board of Trustees:

"That no student under twenty-one years of age shall be admitted to the Columbian College unless he *or she* shall pursue studies in at least three schools of the college, and shall embrace in his *or her* selections at least twelve hours of attendance on recitations or lectures per week."

In this indirect but not heroic way co-education was established in Columbian College which continues until the present day. In the Medical School and Law School the admissions of women had a varying history but at present all schools and departments of the University are open to women and as a matter of fact there are women in all departments except the Veterinary College. There are no more loyal graduates of the College and University than these women.

In the academic year ending June 10, 1914, there were enrolled in all departments of the University 344 women, the entire enrolment for the year being 1611. The larger number of women are in Columbian College and the Teachers College.

### PROFESSIONAL SCHOOLS

The *Medical School* of the University was established as previously mentioned in 1825. Chronologically it is in order of establishment the seventeenth medical school in the United States. For many years the school was known as the National Medical College, subsequently as the Department of Medicine of the Columbian University. It now bears the official title of The Medical School of the George Washington University.

When it was first established and for many years afterwards, the Medical School, like most others in the United States gave only a two years course of five months each. In 1878 the course was lengthened by the establishment of a Spring Session devoted to lectures in certain special subjects. In 1879 the course was lengthened to seven months and attendance upon three annual sessions required, and in 1893 attendance upon four annual sessions was required from all candidates for the degree of Doctor of Medicine. In order to increase the facilities for actual bedside teaching the University Hospital and the University Dispensary were established in 1898 and made a part of the Medical



School. In 1902 the old Medical School building in use since 1897 gave way to the present large and well-arranged structure.

The Medical School has been for several years a member of the Association of American Medical Colleges and it is one of the schools contained in Class A of that Association. The degree of M. D. given by the University is recognized by every Medical Examining Board in the United States as evidence of adequate medical education and it is accredited for all of the work by the combined (Royal) Medical Examining Boards in England. At least one year at College is required for admission. The Medical School is the only one of the departments of the University which requires so many hours of attendance as to bar admission to employees of the general government. With its adjoining hospital and dispensary it is in excellent condition being in charge of a retired officer of the Army, Col. W. C. Borden, of the Medical Corps.

*The Law School* of the University was first organized as previously mentioned in 1826, but was discontinued a year later. In 1865 it was re-established and has been in continuous session since that time. It is the oldest law school in the District of Columbia. It began with a two years course and with only two instructors, one for the senior class and one for the junior class. During the earlier period its classes met for one hour session on three evenings of the week. At present the course for the degree of Bachelor of Laws requires three years of attendance averaging twelve hours of class work per week and the classes meet both in the forenoon and in the late afternoon. Its faculty has grown from two to fifteen, six of whom devote their entire time to its work.

In 1900 the Law School became one of the charter members of the Association of American Law Schools and it has remained a member of the Association since that time. About forty per cent of the regular students in the Law School have graduated from college before taking their law course. Its graduates may be found in every state of the Union occupying positions of trust and honor on the bench, at the bar, in business and in the administration of the affairs of the State and Nation. In numbers it is the second school in the University and it has always borne a high reputation among the law schools of the country.

*The Dental School.*—The first course of lectures in the Dental School began November, 1887, under the title of The Columbian University Dental Department. The course then extended over two years of five months each. Two years later the course was extended to seven months; but this additional time being found inadequate to keep pace with the ever increasing demand for higher dental education, the course was gradually increased, until now it extends over three years of eight months each.

*The College of Engineering* and the *Teachers College* as well as the *School of Graduate Studies* are parts of the Department of Arts and Sciences and their curriculum has much in common with Columbian

College so that they have in part only a distinct entity. Their significance is shown largely by their titles. Allied to this Department of Arts and Sciences but in an unofficial capacity is the Society of Columbian Women, who have by their exertions provided scholarships for the use of young women of merit unable to secure collegiate education.

#### ASSOCIATED COLLEGES

These are institutions in the District of Columbia organized as corporations under the revised Charter of the University, having separate financial foundations but educationally forming a part of the system of the George Washington University.

*The National College of Pharmacy*, which is the outgrowth of the Columbian Pharmaceutical Association, organized in April, 1871, was chartered under the provisions of an Act of Congress in 1872, and opened its doors to students November 11, of that year. In February, 1906, it became a member of the educational system of the George Washington University, under the charter of the University granted by Congress March 2, 1905, providing for the organization of colleges. The President of the University is *ex-officio* president of the National College of Pharmacy and the College is represented in the President's Council by a Dean. The College building is centrally located on I Street, N. W., between 8th and 9th Streets.

In 1908 the *College of Veterinary Medicine* was organized and became an Associated College of the University with a financial autonomy and Board of Trustees of its own. Very considerable instruction is given to the students of this College in the Medical School and the Department of Chemistry of the University. Graduates from this school are eligible for examination to the army as veterinarians and for entry into the Department of Agriculture in its relation to domestic animals. After an examination and the regular course they receive the degree of Doctor of Veterinary Medicine.

The city of Washington has become more and more an educational center and a desirable place for research and residence, and the instruction late in the day specially given by this University affords opportunities for employees in the Government service and elsewhere to acquire both collegiate and professional education. The George Washington University with its many and varied activities is now performing a most useful function in the city and nation and is ready for the desired and natural expansion in plant and teaching which should soon come by the aid of its alumni, from the public spirited members of the community and from the friends of education everywhere.



## BIOGRAPHICAL SKETCHES

Contributed by Deans Hodgkins and Wilbur

## REV. LUTHER RICE

The Rev. Luther Rice, founder of Columbian College, was born in Northborough, Massachusetts, March 25, 1783; he died on a collecting tour through the South for Columbian College, September 25, 1836.

In his boyhood he attended the public schools and worked upon his father's farm. At sixteen on his own initiative he went on a six months trip to Georgia to assist in getting lumber for ship-building. His self-reliance and energy of character are noteworthy in early years. At nineteen he joined the Congregational Church in Northborough after a spiritual experience through many months comparable to John Bunyan's in the "Grace Abounding." From this time Luther Rice was interested in Christian missions and was resolved to enter the Christian ministry. He was educated in Leicester Academy, in Williams College, and in Andover Theological Institution.

In a letter of March 18, 1811, he wrote, "I have deliberately made up my mind to preach the Gospel to the heathens."

He was one of that remarkable company of young men at Williams and Andover—Judson, Rice, Nott, Newell, Hall, Richards, Mills—who initiated in America the modern missionary movement. Their efforts resulted in the formation of the American Board of Commissioners for Foreign Missions. Adoniram Judson by appointment and Luther Rice at his own charges became missionaries of the Board and sailed within a few weeks of each other for Calcutta, India. Both of them changed their views of Christian doctrine, severed their connection with the Congregational board and became Baptists. Judson remained in India. Rice returned to America to enlist the aid of the Baptist churches and develop the missionary enterprise. The Baptist General Convention, commonly called the Triennial Convention, was organized May 18, 1814. This Convention appointed Luther Rice as its agent to raise missionary funds in America, and Mr. and Mrs. Judson as its missionaries in Burma.

On his first missionary journey through the country Luther Rice organized about seventy missionary societies. In 1817, he reported to the Triennial Convention in Philadelphia that he had travelled 7800 miles, collected \$3700, journeying, as he said: "through wildernesses and over rivers, across mountains and valleys, in heat and cold, by day and by night, in weariness and painfulness, and fasting and loneliness."

The new missionary impulse in the Baptist churches was followed by a rapid development in education. Hamilton Theological Seminary was founded in 1820; Waterville—now Colby College, in 1820; Columbian College, in 1821; Georgetown College in Kentucky in 1824; Newton Theological Institution in 1825.

Columbian College was typical of the national scope of this missionary movement. Luther Rice is justly remembered as its founder. He brought about the transfer of a theological school, started in Philadelphia with eighteen students, to Washington in the District of Columbia. A tract of forty-six and a half acres was purchased and a building erected to accommodate eighty students. The college was chartered in 1821 as Columbian College. The theological professors withdrew and founded Newton Theological Institution and the College developed in the field of general education. In 1821 the Triennial Convention assumed control of Columbian College and appointed Luther Rice agent and treasurer. He was ill adapted to the detailed duties of accounting. Funds were insufficient, perplexities increased, critics multiplied, and in 1826 the Convention severed its connection with Columbian College.

The personal devotion of Luther Rice to the College never failed. Other financial agents were appointed but he still collected funds; it is said that he always prayed for Columbian College by name in his public and private devotions. He never married; the College was his family and his home. His letters uniformly began with the superscription "College Hill." His dying request was, "Send my sulky and horse and baggage to Brother Brooks, with directions to send them to Brother Sherwood, and say that all belong to the College." For fifteen years in missionary journeys through Virginia, North Carolina, South Carolina, and Georgia, Luther Rice preached the Gospel, organized churches, and at the same time made the "College in Washington City" an object of contribution, of affection, and prayer. He lived to see the College enlarged and relatively prosperous. Upon one of his journeys he was taken ill and died at the house of his friend, Dr. Mays in Edgefield District, South Carolina, September 25, 1836. Over his grave in the burying-ground of Point Pleasant Church is a monument erected and inscribed by the Baptist State Convention of South Carolina.

THE REV. WILLIAM STAUGHTON, D.D.

1821-1827

*Professor of General History, Belles-Lettres and Moral Philosophy, and of Divinity and Sacred Rhetoric*

He was born at Coventry, England, January 4, 1770, and died at Washington, D. C., December 12, 1829. He graduated at Bristol Theological College in 1792, and shortly afterward came to this country. He preached for a year and a half at Georgetown, South Carolina, and then removed to New York City, and later to Bordentown, New Jersey, where he was pastor of the Baptist Church and principal of the seminary. He was pastor at Burlington, New Jersey, from 1797 to 1805, when he accepted a call to the First Baptist Church at Philadelphia.



where he remained until 1811, when he joined with many members of the First Church in forming the Sansom Street Church, of which he was pastor until 1822, when he resigned to enter upon the duties of President of the Columbian College to which office he had been elected in 1821. He resigned from the College in 1827, and in 1829 was elected President of Georgetown College, Kentucky, but died before assuming office.

He was considered the most eloquent preacher in his denomination; he was an earnest worker in educational lines, being engaged in teaching most of his life; and he was a leader in missionary work. He received the degree of D.D. from Princeton in 1801. He published a volume of poems when but a youth, and a few sermons and discourses.

THE REV. STEPHEN CHAPIN, D.D.

1828-1841

*Professor of Moral and Intellectual Philosophy, and Belles-Lettres*

He was born in Milford, Massachusetts, November 4, 1778, and died October 1, 1845. He graduated from Harvard in 1804, and then studied theology under Rev. Nathaniel Emmons, of Franklin, Massachusetts. He entered the Congregational ministry and served as pastor at Hillsborough, New Hampshire, from 1805 to 1808, and at Mount Vernon, New Hampshire, from 1809 to 1818. Having changed his views on the mode and subjects of baptism, he entered the Baptist ministry, and in 1819 was ordained pastor of the church at North Yarmouth, Maine. In 1822 he accepted the professorship of theology in Waterville College (now Colby University), and remained there until 1828, when he became President of the Columbian College. This position he retained until 1841, when failing health compelled him to resign. He was a man of culture and learning, and won the regard of all with whom he associated. In Washington he was intimate with the leading statesmen and scholars of his day. His published works include but a few sermons, addresses and essays.

THE REV. JOEL SMITH BACON, D.D.

1843-1854

*Professor of Moral and Intellectual Philosophy*

He was born in Cayuga County, New York, September 3, 1802, and died November 9, 1869, at Richmond, Virginia. He studied at Homer Academy and Hamilton College, graduating from the latter in 1826, with the highest honors. He taught in Virginia for a year, and was in charge of a classical school at Princeton, Massachusetts. In 1830 he was elected president of Georgetown College, Kentucky, but held the office only until 1833 when he became Professor of Mathematics and

Natural Philosophy at Hamilton College, New York. At his request, shortly after entering upon his duties, he was transferred to the chair of Moral and Intellectual Philosophy which was erected especially for him. The necessity of settling the estate of his father-in-law, who died in 1837, compelled him to resign from Hamilton College and remove to Salem, Massachusetts, and while living there he was for two years pastor of the church at Lynn. In 1843 he became President of the Columbian College, and held the office until 1854. From 1855 to 1866 he was engaged in female education in the South, and in 1866 he accepted an appointment from the American and Foreign Bible Society to distribute Bibles among the colored people, and though seemingly a lowly work he enjoyed it with his whole heart, and continued this labor until his death.

"He was a true man of pure and lofty sentiments, with broad and generous sympathies, with kindly affections, and singularly free from all partisan prejudices and bitter jealousies."

THE REV. JOSEPH GETCHELL BINNEY, D. D.

1855-1858

*Professor of Moral and Intellectual Philosophy*

He was born at Boston, Massachusetts, December 1, 1807, and died at sea November 26, 1877, while returning to Burma. He was educated at Yale and Newton Theological Seminary, and was ordained in 1832. He settled at Savannah, Georgia, but in 1843 he went to India to engage in missionary work among the Karens. He established in 1845 the Karen Seminary for the training of native ministers, but after some years he returned to America, owing to the precarious health of Mrs. Binney. He was engaged for a time as pastor at Elmira, New York, and Augusta, Georgia, and in 1855 accepted the Presidency. He resigned in 1858 to resume his work among the Karens, where he labored with great success until 1875 when failing health caused him to take a trip to America. On his return, in 1877 he died at sea and was buried in the Indian Ocean.

THE REV. GEORGE WHITEFIELD SAMSON, D.D.

1859-1871

*Professor of Moral and Intellectual Philosophy*

He was born at Harvard, Massachusetts, September 29, 1819. He studied under Rev. Charles Train and Principal Silas Bailey, of the Worcester Manual Labor School, and graduated from Brown University in 1839. For a year he was Assistant Principal of the Worcester Manual Labor School, and in 1840 entered the Newton Theological Seminary, from which he graduated in 1843. In the same year he became Pastor



of the E Street Baptist Church, Washington, D. C., where he had preached during his seminary course. For the two years from 1850 to 1852 he was Pastor at Jamaica Plains, Massachusetts, and then returned to the E Street Church, where he remained until he became President of the College in 1859. It was his difficult task to have the direction of the College affairs during the trying times of the war, but, with the aid of his colleagues, he kept the College open, and was even planning further extension of its work. In 1862, upon his recommendation, a committee from the Trustees was appointed to consider the re-establishment of the Law School; and largely through the exertions of President Samson, a building was purchased and the School was opened in 1865. After the war, large sums were expended in improvements of the buildings and grounds of the College. He resigned from the College in 1871, and accepted the Presidency of Rutgers Female College, New York City. This office he resigned in 1875, but resumed it in 1886. In addition to his college work he was engaged in preaching and training young men for evangelistic labors. He was a constant contributor to the periodical press, and published a number of volumes. In 1852 appeared "To Daimonion, or the Spiritual Medium," issued in 1860, with a supplement as "Spiritualism Tested," and in 1868, as "Physical Media in Spiritual Manifestations." Other works are: "Outlines of the History of Ethics," 1860; "Elements of Art Criticism," 1867; "The Atonement," 1878; "Divine Law as to Wines," 1880; "English Revisers' Greek Text shown to be Unauthorized," 1882; "Guide to Self-Education," 1886; "Guide to Bible Interpretation," 1887; and "Idols of Fashion and Culture," 1888. He died in 1896.

JAMES CLARKE WELLING, LL.D.

1871-1894

*Professor of Mental and Moral Philosophy and Lecturer on History in the College; Professor of Public and Private International Law in the Law School*

He was born July 14, 1825, at Trenton, New Jersey. He prepared for college at the Trenton Academy, and entered Princeton, from which he graduated at 1844. He was a private tutor in Virginia for two years, and then began the study of law. In 1848 he became associate principal of the New York Collegiate School, but after a short time he accepted the position of Literary Editor of the National Intelligencer at Washington. He became Associate Editor of that journal in 1856 and was charged with its chief conduct until 1865, when failing health, induced by his arduous labors, compelled him to resign.

As editor of the Intelligencer during the trying period of the war, he occupied a place of singular difficulty and of great importance and influence. The discussions in the journal during this period often took the

form of elaborate papers on questions of constitutional or international law, and exercised an acknowledged influence on public opinion.

After his resignation from the *Intelligencer*, he spent a year of travel and study in Europe. Returning to Washington, he resumed the duties of Clerk of the United States Court of Claims, to which office he had been appointed in 1863. In 1867 he became President of St. John's College, Maryland, and in 1870 he was called to the chair of Belles-Lettres in Princeton. In 1871 he was elected President of the Columbian College. Under his administration the name of the institution was changed to the Columbian University, a permanent endowment fund was raised for the first time, large and conveniently arranged buildings were erected in the heart of Washington, the Law School was greatly enlarged, the Scientific School and the Dental School were established, the number of students was increased from 326 in 1871 to 755 in 1891, the number of the Faculty from twenty-five in 1871 to fifty-six in 1891, without counting more than once several Professors who teach in more than one department.

President Welling was connected with many literary, historical and scientific societies. He was the President of the Anthropological Society of Washington, was President of the Board of Trustees of the Corcoran Art Gallery, was a Regent of the Smithsonian Institution and Chairman of its Executive Committee. He wrote a great deal, but most of his published work, as yet, appeared in the form of editorials and literary addresses, and of contributions to various periodicals. He resigned January, 1894, and died the same year.

#### THE REV. B. L. WHITMAN, 1895-1900

The Rev. Beniah Longley Whitman was president of Columbian University from 1895 to 1900. He was born in Torbrook, Nova Scotia, November 21, 1862; he died in Seattle, Washington, November 27, 1911. He prepared for college in Worcester Academy, Massachusetts. He graduated from Brown University in the class of 1887, with the degree of Bachelor of Arts, and received the degree of Master of Arts in 1890. He received the honorary degree of D.D. from Bowdoin College in 1894; the degree of LL.D. from Howard University in 1899, and from Furman University in 1906. He married Mary J. Scott of Newton, Massachusetts, December 6, 1888. He was pastor of the Free Street Baptist Church, Portland, Maine, 1890-92; President of Colby University, 1892-95; President of Columbian University, 1895-1900; pastor of the Fifth Baptist Church, Philadelphia, Pennsylvania, 1900-07; First Baptist Church, Seattle, Washington, from 1908 until his death in 1911. He was lecturer in Bucknell University, 1900-07; trustee of Newton Theological Institution, 1894-02; of Crozer Theological Seminary, 1901-08; President of the American Baptist Historical Society, 1900-07.



He was author of "Elements of Ethics," 1893; "Elements of Sociology," 1894; "Elements of Political Science," 1899; "Outlines of Political History," 1900. He was a member of the Delta Upsilon Fraternity and of Phi Beta Kappa.

President Whitman had a commanding personality. He was of large figure and his face was impressive with philosophic calm. It was natural to him to do things in a large way. He was eminent in scholarship, and his judgments were always characterized by magnanimity. Strong intellectuality marked his sermons and addresses, somewhat cold during his presidency but in later years genial with the heart quality of one who with deepening sympathies loved his fellow men.

The University grew in a wholesome way during his administration. The student body increased from one thousand to thirteen hundred; there were many additions to the faculties and many new courses of study. In general much advance was made in standardizing instruction and in developing educational relationships. But the illusion of a large endowment for a work of national scope was doubtless the greatest misfortune of those years. The President's first task was thought to be the collection of funds, and this task Doctor Whitman resigned to his successors.

#### WILLIAM RUGGLES, LL.D.

*Tutor and Professor, 1822-1877; Acting President, 1841-43; 1854-55;  
1858-59*

He was born in Rochester, Massachusetts, September 5, 1797 and died September 10, 1877. He graduated from Brown University in 1820 and in 1852 received the degree of LL.D. from that University.

He became tutor in Columbian College in 1822, at its opening, and remained on the Faculty until his death in 1877. During this long service of fifty-five years—a length of service in one institution almost without a parallel—he was universally esteemed for the conscientiousness with which he discharged his duties and for his high intelligence and his blameless character. During most of the period of his connection with the College he occupied the chair of Mathematics and Natural Philosophy, but from 1861 to 1874 he gave courses also in Political Economy and Civil Polity, for which his long residence in Washington and his broad studies had given him special training.

The Trustees, in adopting resolutions in appreciation of his services, declared, "We hereby testify and record our exalted sense of the virtues which adorned his private character, the unselfish zeal he brought to the performance of all his duties and the inestimable value of the manifold and multiform services which he rendered to the College during the long period of his connection with its history,"

## ADONIRAM JUDSON HUNTINGTON, D.D.

*Tutor, 1843-46; Professor, 1846-49; 1852-59; 1865-1903*

He was born at Braintree, Vermont, July 6, 1818, and died July 15, 1903. His college course, interrupted by ill health, was pursued at Columbia College, New York, Brown University, and Columbian College, Washington, and he graduated from the latter in 1843. He was immediately appointed Tutor of Latin and Greek, and became Professor in 1846. In 1849 he resigned to enter the active ministry but because of frail health returned to teaching in 1852. Again in 1859 he sought to carry out his life-long desires, and accepted a pastorate in Farmville, Virginia, and later in Augusta, Georgia, but in 1865 he returned to the College, where he remained until his death. He was on the Faculty for fifty-one years, although during the last three years he gave only occasional lectures.

Without doubt, Dr. Huntington was the best beloved man who has ever been connected with the University. He was a ripe scholar, an inspiring teacher, a helpful friend. His students admired and loved him and many a life has been made better by the quiet influence of his noble character.





VOLUME XIV

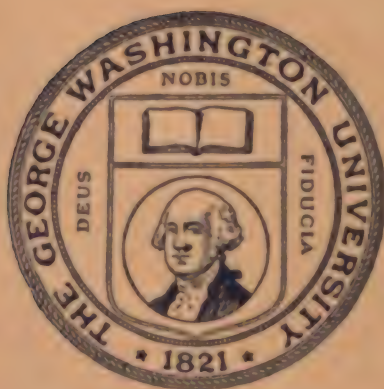
NUMBER 3

# George Washington University Bulletin

---

REPORT OF THE TREASURER

1914 - 1915



PUBLISHED BY THE UNIVERSITY.  
WASHINGTON, D. C.





# George Washington University Bulletin

---

REPORT OF THE TREASURER  
for the year ended August 31, 1915

---

Volume XIV, Number 3, October, 1915

Published four times a year; in March, June,  
October and December

Entered October 6, 1904, at Washington, D. C., as second class matter  
under Act of Congress of July 16, 1894.





## Report of the American Audit Company

### OCTOBER 6, 1915

---

We have examined the accounts and records of the GEORGE WASHINGTON UNIVERSITY for the year ended August 31, 1915, and submit our report including Exhibits and Schedules as follows:

EXHIBIT "A"—BALANCE SHEET,  
As at August 31, 1915.

"B"—SURPLUS ACCOUNT,  
As at August 31, 1915.

"C"—MEDICAL SCHOOL SURPLUS,  
As at August 31, 1915.

"D"—LAW SCHOOL SURPLUS,  
As at August 31, 1915.

"E"—REVENUE ACCOUNT,  
For the year ended August 31, 1915.

"F"—DEPARTMENT OF ARTS AND SCIENCES,  
For the year ended August 31, 1915.

"G"—LAW SCHOOL,  
For the year ended August 31, 1915.

"H"—MEDICAL AND DENTAL SCHOOLS,  
For the year ended August 31, 1915.

"I"—DENTAL SCHOOL,  
For the year ended August 31, 1915.

"J"—UNIVERSITY HOSPITAL,  
For the year ended August 31, 1915.

"K"—STATEMENT OF CASH RECEIPTS AND PAYMENTS,  
For the year ended August 31, 1915.

"L"—SUMMARY OF ENDOWMENT FUNDS,  
As at August 31, 1915.

"M"—SPECIAL FUNDS,  
As at August 31, 1915.

"N"—ENDOWMENT AND SPECIAL FUNDS, INCOME AND EXPENSE,  
For the year ended August 31, 1915.

SCHEDULE "1"—IMPAIRMENT OF ENDOWMENT FUNDS,  
As at August 31, 1915.

"2"—ENDOWMENT FUNDS,  
As at August 31, 1915.

"3"—ENDOWMENT FUND INVESTMENTS,  
As at August 31, 1915.



**CASH: \$25,197.61.**

We counted the cash on hand September 18, 1915, and reconciled the Cash Account with bank pass books as at August 31, 1915, finding deposits in banks, as per bank pass books and cash in accordance with balance shown by the books.

**ACCOUNTS RECEIVABLE: \$8,535.03.**

These accounts consist of fees, etc., due for the term 1914-1915 from students in the various departments as follows:

School of Graduate Studies.....	\$504.03	
Columbian College . . . . .	1,437.29	
College of Engineering . . . . .	635.73	
Teachers College . . . . .	11.25	
Total Department of Arts and Sciences.....		\$2,588.30
Law School . . . . .		413.00
Medical School . . . . .	1,274.01	
Dental School . . . . .	1,090.66	
		2,364.67
Accounts due University Hospital from patients for the year 1914-1915 . . . . .		1,507.71
Income from Endowments, available but not transferred to University account as at August 31, 1915.....		1,661.35
		<u>\$8,535.03</u>

The balances standing in accounts as at September 1, 1914, remaining unpaid at August 31, 1915, are considered worthless and were charged against the respective Surplus Accounts.

**LIBRARIES: Books, \$41,659.50.**

This represents the appraised value of the books in the different libraries as made in 1915.

**EQUIPMENT: \$91,942.34.**

This represents the appraised value of the equipment as made in 1915.

**LIABILITY FOR IMPAIRMENT OF ENDOWMENT FUNDS: \$341,905.02.**

This is the same amount as noted in our last annual report.

**NET INCOME:**

The net income from all departments, exclusive of the University Hospital, was \$26,292.25 as shown by Exhibit "E."

**MEDICAL SCHOOL SURPLUS: \$17,009.52.**

This account includes the surplus of the University Hospital and Medical and Dental Schools as at August 31, 1915, as shown by Exhibit "C."

**LAW SCHOOL SURPLUS: \$9,428.98**

This amount represents the Law School surplus as at August 31, 1915, as shown by Exhibit "D."

SURPLUS ACCOUNT: \$226,300.68.

The changes in this account since August 31, 1914, are shown by Exhibit "B."

ENDOWMENT FUNDS:

On October 5, 1915, in the presence of Mr. C. W. Holmes, Treasurer, and Mr. Richard Cobb, Secretary, at the American Security and Trust Company, Washington, D. C., we inspected the securities representing the investments of Endowment and Special Funds in stocks and bonds as per Exhibit "M" and Schedule "3." We also inspected the trust notes, or receipts for same at the several banks for collection.

We also verified the cash balances at August 31, 1915, representing the uninvested principal and unexpended income of the Endowment and Special Funds with bank pass books.

Respectfully submitted,

THE AMERICAN AUDIT COMPANY,

(SEAL)

By C. R. CRANMER,

*Resident Manager.*

Approved:

F. W. LAURENTZ, *President.*

Attest:

A. F. LAURENTZ, *Secretary.*



EXHIBIT "A."  
BALANCE SHEET.  
As at August 31, 1915.

<i>Assets.</i>		<i>Liabilities.</i>	
<b>Cash:</b>		<b>Trust Notes:</b>	
In Bank .....	\$25,197.61	Notes secured by Deeds of Trust on:	
Petty Cash Fund, University .....	500.00	2023 G Street .....	\$19,500.00
Petty Cash Fund, Hospital .....	500.00	1016 13th Street .....	6,000.00
Petty Cash Fund, Medical School .....	100.00	1300 L Street .....	\$25,500.00
	<u>\$26,297.61</u>		<u>4,462.50</u>
<b>Accounts Receivable:</b>		Interest Payable .....	\$29,962.50
Students' Ledger, 1914-1915 .....	5,365.97	Engineering Laboratory Building Fund .....	264.75
Hospital Accounts, 1914-1915 .....	1,507.71	Building and Grounds Fund Contributions .....	2,950.00
Endowment Income Receivable .....	1,661.35	Liability for Impairment of Endowment Funds:	13,784.00
	<u>8,535.03</u>	Principal and Accumulated Income.	
<b>Libraries—Books:</b>		Schedule 1 .....	341,905.02
Arts and Sciences .....	24,000.00	(Restoration of this impairment is secured by Deed of Trust on the Medical and Hospital Lands and Buildings, 1325, 1333 and 1335 H Street.	
Law School .....	13,909.50	Medical School Surplus:	
Medical School .....	3,750.00	As per Exhibit "C" .....	17,009.52
	<u>41,659.50</u>	Law School Surplus:	
<b>Equipment:</b>		As per Exhibit "D" .....	9,428.98
Arts and Sciences .....	37,632.99	Surplus Account:	
Law School .....	3,184.57	As per Exhibit "B" .....	226,300.68
Medical School .....	28,876.27		
University Hospital .....	22,248.51		
	<u>91,942.34</u>		
<b>Insurance:</b>			
Withdrawal Value of Perpetual Insurance Policies	1,406.25		
<b>Real Estate:</b>			
Medical and Hospital Land and Buildings, 1325, 1333 and 1335 H St. ....	403,599.93		
2023 G Street .....	\$32,500.00		
2023 G Street (3 lots adjoining) .....	4,500.00		
	<u>37,000.00</u>		
2023 G Street (Engineering Laboratory Building) .....	3,000.00		
2025 G Street .....	8,164.79		
1016 13th Street .....	12,000.00		
1300 L Street .....	8,000.00		
	<u>20,000.00</u>		
	<u>471,764.72</u>		

EXHIBIT "B."  
SURPLUS ACCOUNT.

As at August 31, 1915.

Balance, as at September 1, 1914..... \$201,768.57

*Add:*

Increased Valuation Books	} Appraisal, ...	\$2,113.98	
Increased Valuation Equipment		1915 ...	10,203.59
			12,317.57

Old Accounts Collected:—Prior to August 31, 1913..... 259.90

Net Income for University for the year ended August 31,  
1915, transferred from Revenue Account, Exhibit "E".. 26,292.25

\$240,638.29

*Less:*

Fees, 1913-1914 . . . . . 178.00

Uncollectible Accounts, 1913-1914 . . . . . 814.49

Items Charged Building and Ground Fund, 1913.. 153.00

Net Income Medical and Dental Schools for the  
year ended August 31, 1915, transferred to  
Medical School Surplus, Exhibit "C"..... 6,098.30

Net Income from Law School for the year ended  
August 31, 1915, transferred to Law School  
Surplus, Exhibit "D" . . . . . 7,093.82

14,337.61

Balance August 31, 1915..... \$226,300.68



## EXHIBIT "C."

## MEDICAL SCHOOL SURPLUS.

As at August 31, 1915.

Balance, as at September 1, 1914.....	8,496.02
---------------------------------------	----------

*Add:*

Donations from Board of Lady Managers for payment on Trust Notes, Nurses' Home .....	1,000.00
Net Income Medical and Dental Schools for year ended August 31, 1915, Exhibit "H".....	6,098.30
Net Income University Hospital for year ended August 31, 1915, Exhibit "J".....	3,409.00
	<hr/>
	\$19,003.32

*Less:*

Uncollectible Accounts:—Medical and Dental Schools, 1913-1914.....	\$484.30
Hospital, 1913-1914 ..	960.18
	<hr/>
Salary Dr. F. A. Hornaday, 1913-1914.....	\$1,444.48
Fees Medical School, 1913-14.....	112.50
Fees, Dental School, 1913-14.....	248.66
	64.88
Chapman Fund Income credited 1913 not transferred to General Funds.....	123.28
	<hr/>
	1,993.80
Balance August 31, 1915.....	<hr/>
	\$17,009.52

EXHIBIT "D."  
LAW SCHOOL SURPLUS.

As at August 31, 1915.

Balance, as at September 1, 1914..... \$2,652.66

Add:

Net Income Law School for year ended August 31, 1915,  
Exhibit "G" ..... 7,093.82

\$9,746.48

Less:

Uncollectible Accounts, 1913-14 ..... \$297.00

H. Y. Denman Fund Income credited 1914 not trans-  
ferred to General Funds..... 20.50

317.50

Balance August 31, 1915..... \$9,428.98



## GEORGE WASHINGTON UNIVERSITY

## EXHIBIT "E."

## REVENUE ACCOUNT.

For the Year Ended August 31, 1915.

*Expenses.*

Administration Expenses:	
Salaries, Clerk Hire, etc.....	\$11,957.50
Stationery and Printing .....	755.03
Telephone .....	356.75
Advertising .....	586.90
Postage .....	533.13
Auditing .....	500.00
Commencement Expenses .....	1,404.75
Taxes .....	312.00
Miscellaneous .....	735.32
	<hr/>
Appraisal, 1915, Equipment and Libraries.....	\$17,141.38
Interest on Trust Notes.....	610.00
Net Income for year ended August 31, 1915, transferred to Surplus Account, Exhibit "B" .....	1,012.36
	<hr/>
	26,292.25
	<hr/>
	\$45,055.99

*Income.*

Department of Arts and Sciences, "Exhibit "F"....	\$8,652.32
Law School, Exhibit "G" .....	7,093.82
Medical and Dental Schools, Exhibit "H" .....	6,098.30
Contributions:	
Maintenance Fund, 1912-1916 .....	\$8,120.00
General Expenses from:	
Dept. of Arts and Sciences..	\$4,986.78
Law School .....	2,500.00
Dental School .....	1,000.00
University Hospital .....	1,500.00
	<hr/>
	9,986.78
	<hr/>
	18,106.78
Income from Investments:	
Endowments for General Purposes, Exhibit "N" ..	1,629.27
Income from Other Sources:	
Graduation Fees .....	2,238.00
Bonding Fees .....	66.00
Bank Interest .....	649.17
Matriculation Fees, National School of Pharmacy .....	75.00
From Powell Fund, Account of Salary of G. W. Littlehales.....	400.00
Miscellaneous .....	47.33
	<hr/>
	3,475.50
	<hr/>
	\$45,055.99

## EXHIBIT "F."

## DEPARTMENT OF ARTS AND SCIENCES.

For the year ended August 31, 1915.

*Income.*

## Tuition:

School of Graduate Studies.....	\$5,489.50	
Columbian College . . . . .	36,544.12	
College of Engineering . . . . .	15,607.75	
Teachers College . . . . .	6,152.58	
		<hr/>
		\$63,793.95

## Matriculation:

School of Graduate Studies.....	150.00	
Columbian College . . . . .	1,675.00	
College of Engineering . . . . .	490.00	
Teachers College . . . . .	280.00	
		<hr/>
		2,595.00

## Laboratory:

School of Graduate Studies.....	154.38	
Columbian College . . . . .	2,675.89	
College of Engineering . . . . .	950.48	
Teachers College . . . . .	64.00	
		<hr/>
		3,844.75

## Library:

School of Graduate Studies.....	166.00	
Columbian College . . . . .	1,130.00	
College of Engineering . . . . .	212.00	
Teachers College . . . . .	268.00	
		<hr/>
		1,776.00

## Miscellaneous:

Contribution for Chi Omega Prizes.....	30.00	
Contribution for English (Sigma Kappa Prize).	10.00	
Columbian College . . . . .	95.00	
Rent Fraternity Rooms . . . . .	337.00	
		<hr/>
		472.00
		<hr/>
		\$72,481.70



*Expenses.*

Chi Omega Prizes .....	\$30.00	
English (Sigma Kappa Prize) .....	10.00	
Salaries .....	46,670.71	
Laboratory .....	2,815.40	
Library .....	179.72	
Stationery and Printing .....	910.70	
Postage .....	82.62	
Miscellaneous .....	130.23	
		<u>50,829.38</u>

## University Hall:

Wages .....	3,046.96	
Rent .....	900.00	
Heat and Light .....	1,723.91	
Hauling .....	116.75	
Repairs .....	1,677.35	
Supplies and Expense .....	548.25	
		<u>8,013.22</u>

	\$58,842.60	
Transferred to General Funds .....	4,986.78	
		<u>63,829.38</u>

Net Income transferred to Revenue Account,		
Exhibit "E" .....		\$8,652.32

EXHIBIT "G."  
LAW SCHOOL.

For the year ended August 31, 1915.

*Income.*

Tuition . . . . .	\$34,760.75	
Matriculation . . . . .	710.00	
Library . . . . .	1,162.00	
Contribution for Ellsworth Prize . . . . .	25.00	
		<u>\$36,657.75</u>

*Expenses.*

Salaries . . . . .	\$22,019.16	
Library . . . . .	46.63	
Stationery and Printing . . . . .	763.00	
Telephone . . . . .	171.29	
Postage . . . . .	327.00	
Advertising . . . . .	493.60	
Ellsworth Prize . . . . .	25.00	
Miscellaneous . . . . .	57.17	
		<u>23,902.85</u>

Law Hall:

Wages . . . . .	338.33	
Rent . . . . .	2,499.96	
Light . . . . .	181.14	
Repairs to Equipment . . . . .	82.71	
Supplies and Expense . . . . .	58.94	
		<u>3,161.08</u>

	<u>\$27,063.93</u>	
Transferred to General Funds . . . . .	2,500.00	
		<u>29,563.93</u>

Net Income, transferred to Revenue Account, Exhibit "E" . . . . .	\$7,093.82
---	------------



EXHIBIT "H."  
MEDICAL AND DENTAL SCHOOLS.  
For the year ended August 31, 1915.

*Income—Medicine.*

Tuition . . . . .	\$21,174.75
Matriculation . . . . .	105.00
Laboratory . . . . .	611.90
Library . . . . .	438.00
Rent of Microscopes . . . . .	582.38
Rent of Hall . . . . .	99.00
Miscellaneous . . . . .	142.51
	<hr/> \$23,153.54

*Expenses.*

Salaries . . . . .	\$17,036.27
Laboratory . . . . .	1,977.84
Library . . . . .	50.59
Advertising . . . . .	92.34
Stationery and Printing . . . . .	480.07
Telephone . . . . .	284.17
Postage . . . . .	99.80
Miscellaneous . . . . .	350.29
	<hr/> 20,371.37

Medical Hall:

Wages . . . . .	1,430.22
Heat and Light . . . . .	2,156.24
Hauling . . . . .	167.75
Repairs . . . . .	2,127.71
Supplies and Expense . . . . .	537.64
	<hr/> 6,419.56
	<hr/> 26,790.93

Net Loss Medical School . . . . .	3,637.39
Net Income Dental School transferred from Exhibit "I" . . . . .	9,735.69
	<hr/>

Net Income Medical and Dental Schools transferred to Revenue Account, Exhibit "E" . . . . .	\$6,098.30
--	------------

EXHIBIT "I."  
DENTAL SCHOOL.

For the year ended August 31, 1915.

*Income.*

Tuition . . . . .	\$12,021.38	
Matriculation . . . . .	280.00	
Laboratory . . . . .	339.20	
Library . . . . .	186.00	
Rent of Microscopes . . . . .	325.00	
Infirmary . . . . .	1,575.76	
		\$14,727.34

*Expenses.*

Salaries . . . . .	2,560.00	
Infirmary . . . . .	1,117.85	
Laboratory . . . . .	159.51	
Stationery and Printing . . . . .	90.43	
Advertising . . . . .	24.17	
Miscellaneous . . . . .	39.69	
	\$3,991.65	
Transferred to General Funds . . . . .	1,000.00	
		4,991.65

Net Income transferred to Medical and Dental Schools,  
Exhibit "H" . . . . . \$9,735.69

EXHIBIT "J."  
UNIVERSITY HOSPITAL.

For the year ended August 31, 1915.

*Income.*

Pay Patients:		
Collected . . . . .	\$52,554.48	
Uncollected . . . . .	1,507.71	
		\$54,062.19

*Expenses.*

Salaries . . . . .	13,836.71	
Table Supplies . . . . .	14,920.67	
Medical and Surgical Supplies . . . . .	5,945.29	
Electricity and Gas . . . . .	2,914.88	
Fuel . . . . .	1,844.60	
Laundry . . . . .	1,408.00	
Repairs . . . . .	2,322.63	
Miscellaneous Supplies . . . . .	2,026.43	
Ice . . . . .	966.86	
Telephone . . . . .	539.19	
Uniforms . . . . .	420.00	
Stationery and Printing . . . . .	526.78	
Insurance . . . . .	58.16	
Interest . . . . .	650.00	
Hauling . . . . .	137.00	
Lectures . . . . .	100.00	
Miscellaneous . . . . .	535.99	
	\$49,153.19	
Transferred to General Funds . . . . .	1,500.00	
		50,653.19

Net Income transferred to Medical School Surplus,  
Exhibit "C" . . . . . \$3,409.00



EXHIBIT "K."  
STATEMENT OF CASH RECEIPTS AND PAYMENTS.  
For the year ended August 31, 1915.

<i>Receipts.</i>		<i>Payments.</i>	
Receipts from Students:		Expenses:	
School of Graduate Studies.....	\$5,659.53	Department of Arts and Sciences.....	\$51,422.22
Columbian College.....	42,149.89	Law School.....	25,017.62
College of Engineering.....	16,837.62	Medical School.....	20,534.91
Teachers College.....	6,738.30	Dental School.....	2,873.80
Law School.....	36,279.00		
Medical School.....	22,098.69	University Hospital.....	
Dental School.....	12,383.50	Dental Infirmary.....	
Graduation Fees.....	2,218.00	Refunds to Students.....	
		Maintenance of Buildings:	
		University Buildings.....	8,147.99
University Hospital.....	\$144,364.53	Law Hall.....	3,209.34
Dental Infirmary.....	52,618.40	Medical Hall.....	6,413.87
Contributions:	1,581.76		
General Expenses, 1912-1916.....	8,120.00	General Expense.....	17,771.20
Fifty Thousand Dollar Building and		Stationery and Printing.....	14,271.28
Ground Fund.....	2,650.00	Advertising.....	730.53
		Postage.....	586.90
Students' Fees, 1913-1914.....		Interest.....	533.13
Old Hospital Accounts Collected.....		Commencement Expenses.....	1,046.05
Hospital Accounts Receivable.....	24.15	Equipment Law School.....	1,444.25
Rent of Fraternity Rooms.....	103.60	Equipment Medical School.....	21.20
Rent of Hall 1325 H Street.....	337.00	Equipment Dental School.....	669.30
	99.00	Equipment University Hospital.....	1,360.50
		Equipment General.....	919.21
Donations:		Engineering Laboratory.....	1,314.79
Chemical Society for Purchase of		Arts and Sciences Library, Books.....	30.23
Books.....	8.42	Law School Library, Books.....	366.99
Board of Lady Managers to apply on		Medical School Library, Books.....	167.25
Trust on Nurses' Home.....	1,000.00	Nurses' Home.....	85.98
Prizes.....	65.00	Medical Surplus.....	1,000.00
			112.50
	1,073.42		

Prizes:		
National College of Pharmacy—Matriculation Fees	75.00	
College of Veterinary Medicine:		
Medical School Instruction	600.00	
Rent of Microscopes	189.00	
Transfer of Endowment Income	789.00	
Powell Fund for Professor's salary	1,880.66	
Special Examinations	400.00	
Interest on Bank Balances	90.00	
Refund use of Continental Hall	649.17	
Miscellaneous	39.50	
	120.90	
Total receipts	\$217,386.17	
Cash Balance, September 1, 1914:		
Riggs National Bank	13,413.74	
Commercial National Bank	927.90	
	14,341.64	
	\$231,727.81	
Chi Omega	30.00	
Sigma Kappa	10.00	
Ellsworth	25.00	
Real Estate 2025 G Street, N. W.	65.00	
Taxes Accrued 2025 G Street, N. W.	9,144.90	
Fifty Thousand Dollar Building and Grounds Fund	20.92	
Equitable Co-operative Building Association Loan Account	1,000.00	
	300.00	
Total Payments	\$206,530.20	
Cash Balance, August 31, 1915:		
Riggs National Bank	24,269.71	
Commercial National Bank	927.90	
	25,197.61	
	\$231,727.81	

# REPORT OF THE TREASURER



EXHIBIT "L."  
SUMMARY OF ENDOWMENT FUNDS.  
As at August 31, 1915.

	Debit	Credit
Endowment Funds as at Sept. 1, 1914.....		\$123,675.07
Additions to Endowment Funds:		
Chapman Hospital Endowment .....		125.00
Nellie Maynard Knapp Scholarship Fund..		2,000.00
Endowment Funds on August 31, 1915, as per Schedule 2 .....		\$125,800.07
Endowment Fund Investments:		
Investment of Endowment Funds on August 31, 1915, as per Schedule 3.....	\$123,575.52	.....
Uninvested Cash on August 31, 1915.....	2,224.55	.....
	\$125,800.07	\$125,800.07

EXHIBIT "M."  
SPECIAL FUNDS.  
As at August 31, 1915.

	Debit	Credit
<i>Law School Improvement Fund:</i>		
Law School Fund:		
Investment of Law School Surplus, the income to be used for the benefit of the Law School, \$2,028.75.....		
H. Y. Denman Fund:		
Bequest of Hampton Y. Denman for the use and benefit of the Law School. Realized from mining securities received under the bequest on distribution of capital of mining companies, \$473.15 .....		
Mary Emma Jacques Law School Fund:		
Bequest of Mary Emma Jacques for the benefit of the University Law School. (Being one-half of the total bequest to the University), \$4,019.45.....		\$6,521.35
<i>Mary Emma Jacques Medical and Hospital Fund:</i>		
Bequest of Mary Emma Jacques for benefit of the University Medical School and Hospital. (Being one-half of the total bequest to the University) .....		4,019.46
Total Special Funds at August 31, 1915 .....		10,540.81
<i>Special Fund Investments:</i>		
Law School Fund:		
Potomac Electric Power Co. \$2,000 5% Consolidated Mortgage Gold Bonds due 1936 .....	2,028.75	
Mary Emma Jacques Legacy:		
The Metropolitan Railroad Co. \$1,000 5% First Mortgage Gold Bond due 1925 .....	1,070.00	
Norfolk and Washington Steamboat Co. \$500 5% Coupon Trust Bond due 1931 .....	515.00	
U. S. Steel Corporation \$3,000 5% Sinking Fund Gold Coupon Bonds due 1963 .....	3,060.00	
Washington Railway Electric Co. \$1,000 4% Consolidated Mortgage 50-Year Gold Bond due 1951.....	860.00	
Washington Gas Light Co. \$1,000 5% General Mortgage 50-Year Gold Bond due 1960.....	1,105.00	
Uninvested Cash at August 31, 1915.....	1,902.06	
	\$10,540.81	\$10,540.81



EXHIBIT "N."  
ENDOWMENT AND SPECIAL FUNDS, INCOME AND EXPENSES.  
For the year ended August 31, 1915.

	Balance Aug. 31, 1914.		Year ended Aug. 31, 1915.		Balance Aug. 31, 1915.	
	Debit.	Credit.	Expense.	Income.	Debit.	Credit.
Endowment Funds:						
Corcoran Endowment Fund .....	\$.....	\$1,305.26	\$1,305.26	\$1,188.98	\$.....	\$1,188.98
Powell Scholarship Fund .....	.....	1,791.02	1,680.02	1,898.58	.....	2,009.58
Ordronaux Prize Fund .....	.....	180.79	200.00	167.56	.....	148.35
Eleanor J. Cooper Fund .....	.....	1,212.64	.....	412.61	.....	1,625.25
E. K. Cutter Prize Fund .....	.....	20.44	50.00	41.26	.....	11.70
Elton Professorship Fund .....	.....	198.23	198.23	180.52	.....	180.52
Fitch Prize Fund .....	21.07	.....	.....	9.74	11.33	.....
Walsh Prize Fund .....	.....	66.79	.....	12.38	.....	79.17
National Park Seminary Hospital Endowment .....	.....	148.03	.....	20.63	.....	168.66
Davis Prize Fund .....	.....	62.31	30.00	28.88	.....	61.19
Withington Scholarship Fund .....	.....	34.89	.....	15.68	.....	50.57
Davis Scholarship Fund .....	76.18	.....	.....	1.65	.....	.....
Farnham Scholarship Fund .....	.....	94.89	40.00	41.26	74.53	.....
M. M. Carter Scholarship Fund .....	.....	54.89	40.00	41.26	.....	96.15
M. L. Stone Scholarship Fund .....	.....	149.76	80.00	82.52	.....	56.15
Staughton and Elton Prize Fund .....	.....	77.44	10.50	20.63	.....	152.28
Ruggles Prize Fund .....	30.00	.....	10.50	.....	.....	87.57
Congressional Professorship of English Fund .....	.....	283.21	285.21	259.77	40.50	.....
Woodbury Hospital Endowment .....	.....	91.66	455.00	395.42	.....	259.77
L. M. Tree Hospital Endowment .....	.....	4.34	460.00	412.61	43.05	32.08

Chapman Hospital Endowment .....	123.28	4.07	50.55	.....	169.76
Gardner G. Hubbard Memorial Prize Fund.....	4.56	50.00	41.26	13.30	.....
J. McBride Sterrett Memorial Prize Fund.....	.....	.....	8.25	.....	28.33
H. H. Carter Scholarship Fund.....	206.25	.....	.....	206.25	.....
Nellie Maynard Knapp Scholarship Fund.....	.....	.....	82.52	.....	82.52
Special Funds:					
Law School Fund .....	.....	91.96	83.71	.....	83.71
H. Y. Denman Fund .....	.....	20.50	19.52	.....	19.52
Mary E. Jacques Fund .....	.....	348.39	331.70	.....	331.70
Less Balances .....	\$338.06	\$6,382.80	\$5,359.64	\$388.96	\$6,923.51
Net Balances .....	\$ .....	\$6,044.74	\$489.81	.....	\$6,534.55

## SUMMARY.

Unexpended Income at August 31, 1914.....	\$6,044.74
Income for Year:	
Endowment Funds:	
Income for General Purposes.....	\$1,629.27
Income for Designated Purposes....	3,785.25
Special Funds:	
Income for Designated Purposes.....	\$5,414.52
Total .....	434.93
Expenses for Year:	5,849.45
Endowment Funds:	
Expenses for General Purposes.....	\$11,894.19
Expenses for Designated Purposes...	3,110.09
Special Funds:	
Expenses for Designated Purposes.....	4,898.79
Unexpended Income at August 31, 1915.....	460.85
	5,359.64
	\$6,534.55



## SCHEDULE "1."

## IMPAIRMENT OF ENDOWMENT FUNDS.

Restoration of this impairment is secured by Deed of Trust on the  
Medical and Hospital Land and Buildings 1325,  
1333 and 1335 H Street, N. W.

As at August 31, 1915.

Fund.	Impairment Principal.	Impairment Income.
Congressional Endowment Fund .....	\$63,872.93	\$.....
Poindexter Endowment Fund .....	12,525.56	.....
Forty Thousand Dollar Endowment.....	26,891.46	.....
Elton Professorship Fund .....	10,133.19	.....
Syms Legacy .....	1,500.00	.....
Withington Scholarship Fund .....	1,573.20	.....
Walker Scholarship Fund .....	2,500.00	.....
Morehouse Scholarship Fund .....	1,500.00	.....
Davis Scholarship Fund .....	1,000.00	.....
Powell Scholarship Fund .....	.....	22,272.00
Mary Lowell Stone Scholarship Fund.....	.....	775.38
Ruggles Prize Fund .....	500.00	.....
Fitch Prize Fund .....	764.00	914.83
Cutter Prize .....	.....	75.14
Walsh Prize Fund .....	.....	126.58
Ordronaux Prize Fund .....	701.53	230.47
Corcoran Endowment Fund .....	189,158.75	.....
H. H. Carter Scholarship Fund.....	5,000.00	.....
Total, August 31, 1910.....	\$317,620.62	\$24,394.40
Less:		
Donations for rehabilitation of the		
Corcoran Endowment Fund:		
February 10, 1913 .....	\$10.00	
October 20, 1913 .....	100.00	
	110.00	.....
Total at August 31, 1915.....	\$317,510.62	\$24,394.40

## SUMMARY OF IMPAIRMENTS.

Principal .....	\$317,510.62
Accumulated Income .....	24,394.40
	<u>\$341,905.02</u>

## SCHEDULE "2."

## ENDOWMENT FUNDS.

As at August 31, 1915.

<b>Congressional Endowment Fund:</b>	
Grant by Congress of land in the District of Columbia to be sold and the proceeds invested; the income "To be applied in aid of other revenues of the said college, to the establishment and endowment of such professorships therein as now are, or hereafter shall be established by the said trustees" .....	\$21,539.00
<b>Elton Professorship Fund:</b>	
Bequest of Romeo Elton, to be applied for the foundation of a professorship of mental and moral philosophy. ....	4,375.00
<b>Farnham Scholarship Fund:</b>	
Gift of Mrs. Robert Farnham, to establish a scholarship in the College .....	1,000.00
<b>Maria M. Carter Scholarship Fund:</b>	
Gift of Mrs. Maria M. Carter, to establish a scholarship for some deserving young man .....	1,000.00
<b>Admiral Powell Endowment:</b>	
Bequest of Admiral Levin M. Powell of land in the District of Columbia; the income to be devoted as far as the same will go, under such regulations as the trustees or overseers may deem best, to the free education of such young men that may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, etc....	18,923.00
<b>Mary Lowell Stone Scholarship Fund:</b>	
Gift of Mary Lowell Stone to establish a scholarship fund to be paid to needy women in the Corcoran Scientific School at the discretion of the dean of said School....	2,000.00
<b>Staughton and Elton Prize Fund:</b>	
Gift of Rev. Wm. Staughton of \$250.00 to found a prize for the encouragement of classical literature in the Columbian College, to be called the Staughton Prize.....	500.00
Gift of Rev. Dr. Romeo Elton of \$250.00 toward the foundation of a prize fund for the encouragement of classical study in the Columbian College.....	
<b>Willie E. Fitch Prize Fund:</b>	
Gift of James E. Fitch to found a gold medal with the income of said fund to be assigned under the auspices of the projected Scientific School.....	236.00
<b>E. K. Cutter Prize Fund:</b>	
Bequest of Marion Kendall Cutter to be invested; the income to be applied for the purchase of an annual prize for excellence in the study of English.....	1,000.00
<b>Thomas F. Walsh Prize Fund:</b>	
Gift of Thomas F. Walsh; the income to be applied for an annual gold medal in Irish History.....	300.00
<b>Ordronaux Prize Fund:</b>	
Bequest of Dr. John Ordronaux for the establishment of biennial prizes in the Law and Medical Schools.....	4,060.97
<b>Corcoran Endowment Fund:</b>	
Gift of Wm. W. Corcoran to found a permanent fund, of which the interest alone shall be applied for the purposes of the College.....	\$28,706.17
Donation for the rehabilitation of the Corcoran Endowment Fund .....	110.00
	<hr/> 28,816.17



*Eleanor J. Cooper Fund:*

Bequest of Eleanor J. Cooper; the income to be devoted to the investigation of the nature, causation, prevention, and cure of malaria and other infectious and contagious diseases . . . . . 10,000.00

*National Park Seminary Endowment:*

Gift of the National Park Seminary for the endowment of a bed in the University Hospital . . . . . 500.00

*Davis Prize Fund:*

Gift of Hon. Isaac Davis to establish a fund; the income to be distributed annually to such members of the senior class as shall have made the greatest progress in elocution since their connection with the College . . . . . 700.00

*Woodbury Hospital Endowment:*

Bequest of Ellen C. de Q. Woodbury for the reception and treatment of female patients by the Hospital belonging to or connected with the University . . . . . 9,583.33

*Laura M. Tree Hospital Endowment:*

Bequest of Judge Lambert Tree to establish one or more beds in perpetuity in "The Columbian University Hospital," to be known as the "Laura M. Tree bed or beds" . . 10,000.00

*Congressional Professorship of English Fund:*

Proceeds from sale of Congressional Grant to be invested and the income applied as shown under Congressional Endowment Fund . . . . . 6,295.77

*Gardiner G. Hubbard Memorial Prize Fund:*

Gift of Gertrude M. Hubbard to establish an endowment; the income to be given annually to that member of the graduating class who has during four years maintained a high standing in American History . . . . . 1,000.00

*J. MacBride Sterrett, Jr., Memorial Medal Fund:*

Gift of J. MacBride Sterrett to establish a fund; the income to provide a gold medal, annually awarded to that student taking course I in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic. . . . . 200.00

*Davis Scholarship Fund:*

(Gift of Hon. Isaac Davis to establish a Scholarship Fund, the annual income to be appropriated to some student pursuing his collegiate course in said College.)  
Gift of Hadleigh Marsh, reimbursing fund . . . . . 40.00

*Withington Scholarship Fund:*

(Subscription of loan to Columbian College for the purpose of endowing a scholarship to be named the Withington Scholarship.)  
Proportion of proceeds on settlement of estate of John Withington, deceased . . . . . 379.93

*Chapman Hospital Endowment:*

Bequest of Susannah A. Chapman "to be used for the purposes of the free wards of its University Hospital" . . 1,350.90

*Nellie Maynard Knapp Scholarship Fund:*

A fund established by "Columbian Women" as a memorial to Nellie Maynard Knapp. Income to be used to aid women who would not otherwise be able to proceed with their education . . . . . 2,000.00

**\$125,800.07**

## SCHEDULE "3."

## ENDOWMENT FUND INVESTMENTS.

As at August 31, 1915.

*Stocks.*

American Telephone and Telegraph Co.:	
6 shares of stock.....	\$708.00
Washington Sanitary Improvement Co.:	
130 shares of stock.....	1,300.00

*Bonds.*

Chicago, Rock Island and Pacific Railway Co.:	
\$24,000 4 per cent First and Refunding Mortgage Bonds, due 1934 .....	20,959.17
Chicago, Rock Island and Pacific Railway Co.:	
\$5,000 4 per cent Collateral Trust Bonds of 2002.....	4,118.75
Chicago, Rock Island and Pacific Railway Co.:	
\$5,000 4 per cent Collateral Trust Bonds of 2002.....	4,060.97
City of New Brunswick, New Jersey:	
\$3,000 4 per cent Sinking Fund Bonds.....	3,000.00
City of Medford:	
\$3,000 4 per cent Sewerage Loan Bonds.....	3,000.00
Potomac Electric Power Co.:	
\$9,000 5 per cent Consolidated Gold Mortgage Coupon Bonds of 1936 .....	8,988.75
Potomac Electric Power Co.:	
\$1,000 5 per cent Consolidated Gold Mortgage Coupon Bonds of 1936 .....	1,000.00
Norfolk and Washington Steamboat Co.:	
\$200 5 per cent Coupon Bonds of 1931.....	208.00
Washington Railway and Electric Co.:	
\$500 4 per cent Consolidated Mortgage 50-Year Gold Bond, due 1951 .....	431.25
Potomac Electric Power Co.:	
\$2,000 5 per cent Consolidated Gold Mortgage Coupon Bonds, due 1936 .....	2,040.00
Potomac Electric Power Co.:	
\$3,000 5 per cent Consolidated Gold Mortgage Coupon Bonds, due 1936 .....	2,996.25
Virginia Railway Co.:	
\$300 5 per cent First Mortgage Gold Bonds, Series "A," due 1962 .....	297.38
Washington Railway and Electric Co.:	
\$4,000 4 per cent Consolidated Mortgage 50-Year Gold Bonds, due 1951 .....	3,200.00



*Trust Notes.*

## Thomas R. Marshall Note:

Note secured by deed of trust on part of lot 5, square 253, and lot 70, block 30, in Columbia Heights.....	5,000.00
--	----------

## Washington Sanitary Improvement Co.:

Real Estate Notes as follows: 12 notes of \$1,000 each, 2 notes of \$2,000 each.....	16,000.00
--	-----------

## Wm. S. and Susan L. Dewhirst Note:

Note secured by deed of trust on lot 9, square 243.....	500.00
---	--------

## Agnes Plunkett Notes:

Notes secured by deed of trust on part of lot 12, square 11, in Meridian Hill.....	200.00
--	--------

## Alfred Keir Notes:

63 notes of \$10 each, dated August 10, 1914, secured on lot and building at Hyattsville, Prince George Co., Md. . . . .	630.00
--	--------

## Arthur T. Ramsey and Judith L. Steele:

3 notes of \$1,000 each, dated March 20, 1915, secured by deed of trust on lots 21, 22, 23 and part of lot 9, block 32, Columbia Heights.....	3,000.00
---	----------

*Real Property.*

Real Property, 1707 I Street, N. W.....	18,923.00
Real Property, Burgdorf Lot (Sublot 148, square 672).....	1,350.00
Real Property, Chapman Estate, Hyattsville.....	125.00
Real Property, Government Grant:	

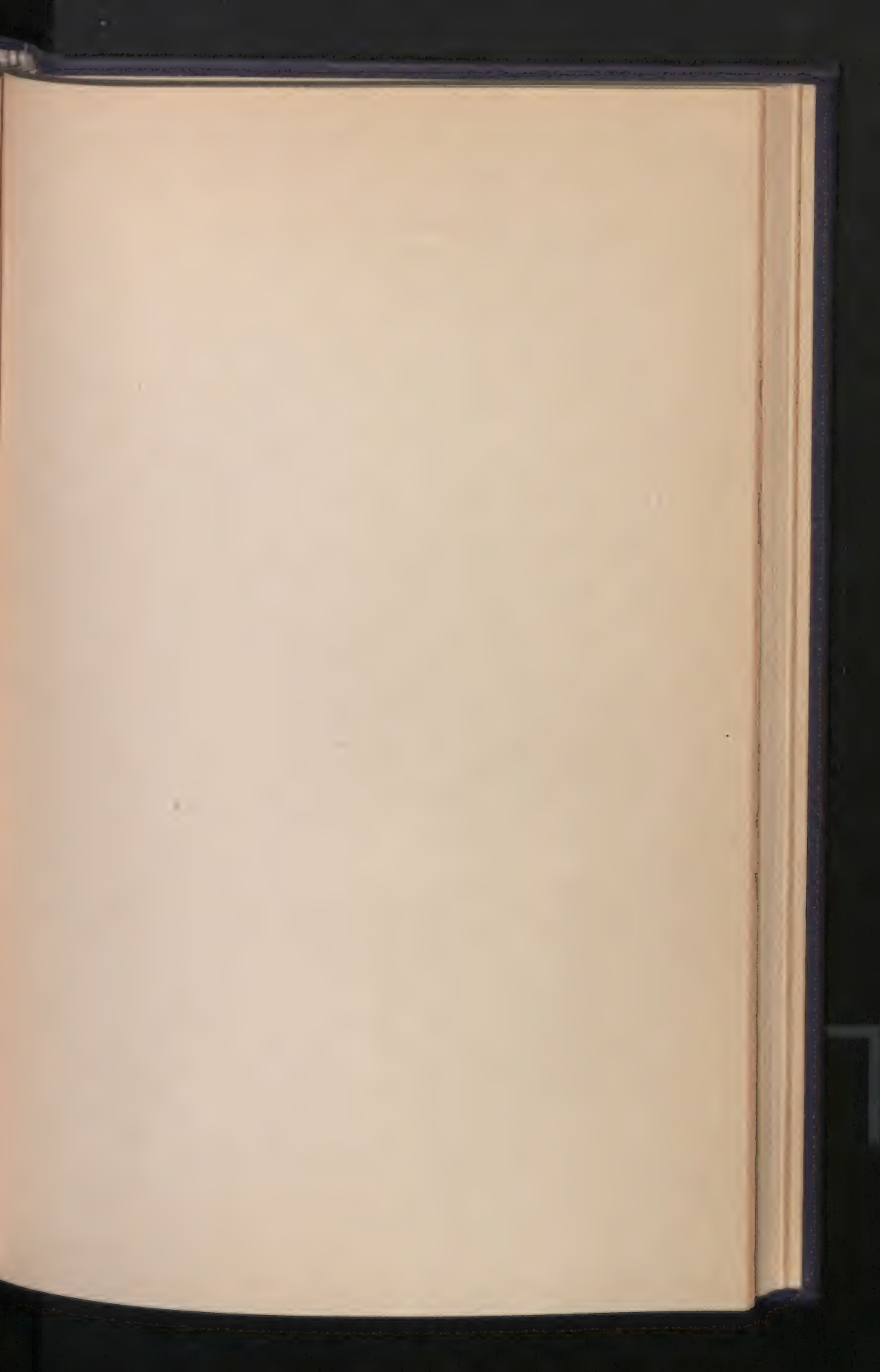
Lot 8, square 13.....	2,565.00
Lot 10, square 13.....	2,218.00
Lot 12, square 13.....	4,588.00
Lot 13, square 13.....	3,924.00
Lot 9, square 16.....	2,224.00
Lot 8, square 23.....	3,055.00
Lot 2, square west of 23.....	1,069.00
Lot 5, square 87.....	1,896.00

---

\$123,575.52

*Summary.*

Stocks . . . . .	\$2,008.00
Bonds . . . . .	54,300.52
Trust Notes . . . . .	25,330.00
Real Property . . . . .	41,937.00
	<hr/> : \$123,575.52







VOLUME XIV

NUMBER 4

# George Washington University Bulletin

---

REPORT OF THE PRESIDENT

1914-15



PUBLISHED BY THE UNIVERSITY  
WASHINGTON, D. C.





# George Washington University Bulletin

---

REPORT OF THE PRESIDENT

---

Volume XIV, Number 4,

December, 1915

PUBLISHED FOUR TIMES A YEAR: IN MARCH, JUNE,  
OCTOBER AND DECEMBER

Entered October 6, 1904, at Washington, D. C., as second-class matter under  
Act of Congress of July 16, 1894.





## CONTENTS

PRESIDENT'S REPORT.....	1
APPENDIX.....	8
Arts and Sciences.....	8
Graduate School.....	16
Columbian College.....	19
College of Engineering.....	21
Teachers College.....	24
Medical School.....	26
Dental School.....	27
Law School.....	28
Pharmacy.....	35
Veterinary Medicine.....	36
Subscribers to University Funds Since July, 1910.....	37





## THE GEORGE WASHINGTON UNIVERSITY

### Report of the President

WASHINGTON, D. C., December 31, 1915

TO THE CHAIRMAN OF THE BOARD OF TRUSTEES, GEORGE WASHINGTON UNIVERSITY.

SIR: I have the honor to present my report upon the University for the academic year 1914-1915 which ended August 31, 1915, and upon the general affairs of the University to the date of this report.

The prescribed courses in the various departments of the University were carried on from the beginning of the academic year, September 30, 1914, until the annual commencement, June 9, 1915. The maximum registration in all departments for the year was 1795. The largest number of students in attendance at any one time was 1591. These numbers show a continued increase over the numbers of previous years.

The distribution of the students in the various departments of the University giving the maximum registration in each case was as follows:

School of Graduate Studies.....	97
Columbian College.....	596
College of Engineering.....	220
Teachers College.....	141
Law School.....	403
Medical School.....	147
Dental School.....	109
National College of Pharmacy.....	64
College of Veterinary Medicine.....	40
Total.....	1,817
Duplicates.....	22
Total registrations.....	1,795

It gives me pleasure to testify to the capacity, efficiency and fidelity of the teaching staff of the University during the year. It is my purpose whenever the finances of the University will permit, to recommend to the Board of Trustees an increase



of the salaries of the staff of instructors until a proper maximum is reached for each grade and position.

The residential building, No. 2025 G Street, adjoining the main University building on the west, was purchased during the year and altered and equipped for academic purposes, the total outlay being \$8164.79. This additional room was urgently needed and has added considerably to the facilities of the Department of Arts and Sciences.

Contributions to the University were received from various sources during the year as follows: for prizes, \$65; for maintenance, \$8120; for buildings and grounds, \$3650; for books, \$8.42. Total contributions, \$11,843.42.

The mortgage indebtedness was reduced as follows: on property, main Arts and Sciences Hall, 2023 G Street, \$2000; on properties 1016 Thirteenth Street and 1300 L Street, Nurses Homes, \$1300. Total reduction, \$3300. The mortgage debt of the University as at August 31, 1915, amounted to \$29,962.50.

On account of the stringency of financial affairs the fund for clearing off the indebtedness upon the University property has not been completed. It was proposed to raise for this purpose a sum of \$50,000. There has been subscribed for this purpose \$28,555, leaving an amount of \$21,445 to complete the fund.

The maintenance fund of \$50,000 in five instalments for the years 1912-1916 inclusive expires this year with the fifth and last payment. It has accomplished the purpose for which it was instituted and the revenues of the University now meet its expenditures. The earnest and hearty thanks of the University and the community which it benefits are due to the civic spirit and generous gifts of the men and women who have contributed in this and other ways to effect the salvation of the University. Their names will be enrolled in the book of benefactors of the University for its archives and published from time to time for the information of those interested in our progress.

The continued increase in the registration of the University of course creates a need for its expansion in various ways, and

causes additional liabilities to those incurred in the purchase of the main University building on account of the buildings which we have had to add to our limited facilities for sheltering our plant and additional students. These are troubles of prosperity. In addition we are greatly in need of additional productive endowments as well as of buildings for a science hall and the Law School.

The actual productive and unproductive endowment funds amounted at the end of the year under report—August 31, 1915—to \$125,800.07. This sum does not include the impairment of endowment funds, the principal of which amounts to \$317,510.62, and is secured by a deed of trust on the Medical and Hospital land and buildings which becomes available upon the sale of that property.

The decided increase in the registration for the present year of 1915-1916 over that of 1914-1915 so crowds the library and class rooms of the Department of Arts and Sciences that the need of additional facilities compelled the Board of Trustees since the opening of the new year, to purchase the building immediately adjoining the University Hall on the east. This building will be enlarged and remodeled in time, it is expected, for the second half of this year.

The Librarian of the Department of Arts and Sciences reports that there were accessioned 1011 volumes during the year. These added to the books and pamphlets on hand October 31, 1914 namely, 38,852, make on September 1, 1915, 39,863 volumes, of which number 29,104 are books and 10,759 pamphlets. He states that "The usefulness of the Library has materially increased. The students are beginning to appreciate more and more the function of our Library, and many would be able to take advantage of it to a still greater extent if the reading room accommodations were more commodious. Indeed, larger quarters and more suitable equipment are all but imperative. We need a larger reading room, up-to-date library tables and desks, a number of individual desk lights, and more shelf space, in order to make the resources of our Library accessible and usable to an ever increasing number of students."



I am glad to supplement this reference to the needs of the Library by stating that the removal of class rooms resulting from the acquisition of the adjacent building on the East side will allow a very considerable addition to the reading room of the Library. The Library equipment referred to is still to be provided.

I have referred to the need for a Science Hall to be placed near the other buildings of the Arts and Sciences Department. This hall is required for the purpose of instruction in Chemistry and allied subjects. This is now the most important and immediate requirement in the way of buildings among the various needs of the University. The building should be fire-proof and capable of extension for increased enrollment. An explanation of this need will be found in the extract from the report of the Dean of the Department of Arts and Sciences in the Appendix.

Although the University lacks sufficient endowment in general and especially has but few endowed scholarships, it has done whatever has been practicable in the way of aid to students whose needs made a claim upon its benevolence. Where possible student assistants have been used for the purpose of laboratory and other work. The benefactions in various forms to students amount in estimated value for the year to over eight thousand dollars.

The future of the University judging from the experience of the past makes it primarily an urban institution. Notwithstanding this fact it numbers among its students men and women from practically every state in the Union and from many adjacent countries. Its value however to the residents of the District of Columbia should appeal to them with the greatest force.

In meeting the needs of its students for collegiate and professional work, the University also meets demands both of the Federal and District governments. It gives instruction in direct preparation for the consular service of the United States. It also offers instruction meeting the needs of the Federal service; for instance, there is given more hours a week throughout the year in Patent Law and Patent Office Practice

than is offered anywhere else in the country. Most of its courses, however, are planned merely to give a thorough knowledge of the subject taught. This knowledge is of service to the Government employee and incidentally therefore to the Government. There is probably no department in the United States Government from which employees have not registered as students in the University while from many of the departments notably that of the Navy, the Interior, the Agriculture, and the Commerce and Labor they have been practically required to do work in the University. The Navy Department for instance has ordered men to come to the University for instruction sometimes in Chemistry, sometimes in Physics, and sometimes in Law. All of the eight officers now on the staff of the Judge Advocate General of the Navy have studied Law in the University. Knowledge of Law is becoming more frequently required in all departments of the United States Government. The University stands ready to meet, so far as its means will permit, all such demands for professional or technical training.

Preparation for public service under the District Government like that for service under the Federal Government is largely incidental. There is, however, a specially adapted course given in Milk Hygiene; and the University in its Teachers College offers direct training for this public service. The public school system of the District and the University though officially unrelated are mutually helpful. The Superintendent of Schools and many of the teachers are graduates of the University.

A review of the progress of the University since 1911 shows the increase in the maximum enrollment of the University from 1270 in 1911-1912 to 1795 in 1914-1915, with an indication that the maximum registration for the year just begun, 1915-1916, will reach in the vicinity of 1900 students.



Since our removal from the I Street location in 1912, we have purchased and remodeled buildings as follows:

2023 G Street, cost.....	\$32,500.00	
Installation.....	<u>10,606.01</u>	\$43,106.01
Ground for Mech. Eng. Lab. cost.....	4,500.00	
Building and installation.....	<u>4,500.00</u>	9,000.00
2025 G Street, cost.....	6,180.00	
Installation.....	<u>1,984.79</u>	8,164.79
Nurses' Home, 1016 13th Street.....		12,000.00
Nurses' Home, 1300 L Street.....		<u>8,000.00</u>
		\$80,270.80

We have purchased and contracted to equip the Catlin and Linkins property, No. 2017 G Street, at a cost of:

For the property.....	\$9,000.00	
New back building and installation.....	<u>6,845.00</u>	\$15,845.00
Total for property and installation.....		<u>\$96,115.80</u>

Mortgages were placed on these properties amounting to \$55,000, but by subsequent payments this indebtedness has been reduced to \$34,387.50, itemized as follows:

On 2023 G Street.....	\$17,500.00
1016 13th Street.....	6,000.00
1300 L Street.....	4,387.50
2017 G Street (Catlin).....	<u>6,500.00</u>
Present mortgages.....	\$34,387.50

Of the total cost and installation of the property purchased since 1912, we have paid in cash \$61,728.30, provided as follows:

General fund.....	\$41,494.00
Buildings and grounds fund.....	13,784.00
Mech. Eng. Laboratory fund.....	2,950.00
Board of Lady Managers of the Hospital.....	<u>3,500.00</u>
	<u>\$61,728.00</u>

When the Arts and Sciences department was moved in 1912 it was thought that the demand for teaching space would be met in the buildings at 2023 and 2024 G Street. The in-

crease in attendance since 1912 has made it however imperative to provide added quarters. This has been accomplished by the purchase of ground for and erection and installation of the Mechanical Engineering Laboratory, enabling us to utilize for teaching a fair equipment of machinery; the purchase and installation of 2025 G street, providing much needed space for biology; and the recent purchase and proposed enlargement of 2017 G Street. When the last named installation is completed there will be added to the facilities two large class rooms seating 140 each, two class rooms seating 80 each, several rooms suitable for offices, and incidentally a large increase in space for the Arts and Sciences library.

This evidence of the improved and improving condition of the University is a justification for an appeal for further funds for the provision of additional scholarships, for the needed expansion of its curriculum, the continuance of the elevation of its standards, the proper support of its teaching staff, the extinction of liabilities on its property and as a matter of great importance the provision of additional buildings and plant in science, law, and medicine, giving full facilities in all of its schools.

Respectfully,

CHARLES H. STOCKTON,  
*President.*



## APPENDIX

The following extracts are taken from the annual report of Dean Hodgkins of the Department of Arts and Sciences.

The enrollment of students in the Department was as follows:

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Graduate School.....	78	18	96
Columbian College.....	342	252	594
College of Engineering.....	217	2	219
Teachers College.....	6	135	141
	<u>643</u>	<u>407</u>	<u>1050</u>
Duplicates.....	3	0	3
	<u>640</u>	<u>407</u>	<u>1047</u>
Candidates for degrees.....			693
Special students.....			354

Of the undergraduate students 263 attended day classes and 688 attended the late afternoon classes.

There has been a notable gain in attendance in the University during the five years since 1910 and the Department of Arts and Sciences has increased in numbers more rapidly than some other departments. The following table shows that the enrollment in Arts and Sciences has increased from 53.3 per cent of the total in the University to 58.8 per cent during this period.

*Comparison of Enrollment*

YEAR	STUDENTS IN UNIVERSITY	STUDENTS IN ARTS AND SCIENCES	PER CENT IN ARTS AND SCIENCES
1910-1911.....	1277	681	53.3
1911-1912.....	1270	733	57.7
1912-1913.....	1347	778	57.8
1913-1914.....	1611	905	56.2
1914-1915.....	1790	1047	58.5

The average attendance in classes and the distribution of the students in the several divisions of the Department are shown in the following table:

*Average Enrollment in Classes*

		GRADUATE	COLUMBIAN COLLEGE	ENGINEERING	TEACHERS COLLEGE	TOTAL
Applied Mathematics	20			14		14
	21			8		8
	22			12		12
Archaeology	20a		10		4	14
	20b	1	11		3	15
	21		4		3	7
	22	1	11			12
	51	2	5	1	4	12
Architecture	3			13		13
	4			10		10
	5			3		3
	8			5		5
	20			3	1	4
	21			9		9
	22			4		4
	24			2		2
	25			3		3
	33			3		3
	39			9		9
	40			2		2
	41			5		5
Botany	1		10			10
Chemistry	1		81	49		130
	2		76	2		78
	3		25	1		26
	6		10	11		21
	7			30		30
	20		20	2		22
	21		9			9
	23		21	2		23
	24		8			8
	25		5			5
	26	2	8			10
	27	2	3			5
	28		1			1



*Average Enrollment in Classes—Continued*

		GRADUATE	COLUMBIAN COLLEGE	ENGINEERING	TEACHERS COLLEGE	TOTAL
Civil Engineering	1		3	8		11
	2			6		6
	3			6		6
	4			7		7
	8		1	3		4
	20			3		3
	21			3		3
	22			7		7
	23			4		4
	24			4		4
Economics	1		32	2	2	36
	2	1	47	2	5	55
	22	2	25		14	41
	23	1	20		10	31
	28	1	5			6
	33		14	16		30
	36		11		1	12
	37		7			7
	38		10		1	11
	39		8			8
	51		9			9
Education	20		7		6	13
	21	4	4		12	20
	22	2	5		24	31
	24	1	1		18	20
	25		2		15	17
	30		3		9	12
	33		1		11	12
	34				10	10
	35				9	9
	50	6			1	7
Electrical Engineering	1		2	2		4
	2			3		3
	4, 5			3		3

*Average Enrollment in Classes—Continued*

		GRADUATES	COLUMBIAN COLLEGE	ENGINEERING	TEACHERS COLLEGE	TOTAL
Electrical Engineering—Cont.	7		4	4		8
	21			2		2
	22			2		2
	23			4		4
	24			5		5
	26			4		4
	53			1		1
English	1		62	12	2	76
	2		97	30	9	136
	3		35		6	41
	4		29		9	38
	5		1		3	4
	20		6			6
	22		25	1	8	34
French	23		12	2	18	32
	1		27	12	1	40
	2	1	32	17		50
	3		25	2		27
	4		12	4	6	22
	6		8		1	9
	6a		7		1	8
Geology	28		6		3	9
	28a	2	2			4
	1		11			11
	2		24	1	2	27
	20	5	2	1		8
	21		1			1
	Sp.	2	2			4
German	1		17	5		22
	2		25	9		34
	3		13	2	3	18
	4		24	9	4	37
	5		20		2	22
	20		5		1	6



*Average Enrollment in Classes—Continued*

		GRADUATE	COLUMBIAN COLLEGE	ENGINEERING	TEACHERS COLLEGE	TOTAL
German—Continued	22		3		2	5
	50				1	1
	51	1			1	2
Graphics	1			26		26
	2		1	6		7
	8			13		13
Greek	B		2			2
	21		1			1
History	1, 2		41	2	6	49
	3, 4		22		8	30
	5, 6		38		3	41
	30		26		7	33
	33		54	1	26	81
	54		29		7	36
Latin	1		10		1	11
	2		5			5
	20		2		1	3
	22		2		1	3
	51		1		2	3
Mathematics	3		25	5		30
	4		5	10		15
	6		23	11	1	35
	9		17	11		28
	12		9	45		54
	20		12	13	1	26
	21		6	7		13
	50	1	2			3
	51	1	3			4
Mechanical Engineering	1		1	9		10
	7			1		1
	9			4		4
	10			4		4
	20, 21	1	1	4		6
	22			2		2

*Average Enrollment in Classes—Continued*

		GRADUATE	COLUMBIAN COLLEGE	ENGINEERING	TEACHERS COLLEGE	TOTAL
Mechanical Engineering—Cont.	23			5		5
	24			6		6
	26			6		6
Nautical Science	1			3		3
Philosophy	1		23		5	28
	2		40	2	14	56
	3		26		5	31
	4		40	1	10	51
	20, 21		10		6	16
	24		5		5	10
	25	2	3		2	7
	28		6		3	9
	29	2			1	3
Physics	1		15	24	1	40
	2		37	19		56
	3		32			32
	21	1	2			3
	57	3	1			4
	59	3	1			4
Political Science	1, 4		35		3	38
	21, 23		16	1	1	18
	31, 28		11	1	2	14
	29, 30		16	1		17
Spanish	1		21			21
	2		4	1		5
	2a		3	2		5
Zoology	1		35		5	40
	2		25			25
	23		4		7	11



The number of class periods a week, the number of students, and the number of "student hours" a week in the various subjects are shown in the following table:

	CLASS PERIODS EACH WEEK	AVERAGE NUMBER OF STUDENTS	STUDENT HOURS
Applied Mathematics.....	6	34	68
Archaeology.....	6	60	72
Architecture.....	31	72	178
Botany.....	3	10	30
Chemistry.....	38	368	996
Civil Engineering.....	29	55	158
Economics.....	19	229	482
Education.....	18	151	246
Electrical Engineering.....	22	36	81
English.....	21	367	1059
French.....	24	169	486
Geology.....	10	51	102
German.....	27	147	441
Graphics.....	11	46	105
Greek.....	5	3	8
History.....	16	270	648
Latin.....	12	25	66
Mathematics.....	28	208	617
Mechanical Engineering.....	18	44	104
Nautical Science.....	2	3	6
Philosophy.....	15	211	344
Physics.....	19	139	361
Political Science.....	12	87	261
Spanish.....	8	31	88
Zoology.....	10	76	216

This gives a total of 410 class periods a week, and these consist of 322 recitations or lectures and 88 laboratory or drawing periods a week.

This is an average of 68 class periods each day. A comparison with the figures for the previous year, shows an increase of 44 class periods a week and an increase of 1560 in the number of "student hours."

A study has again been made of the grades reported by instructors during the year, and the following table shows the total number of term marks reported in each subject, and percentage of marks in each grade. The "theoretical average" is taken from a report on grading made two years ago by a committee of which Dean Ruediger was Chairman.

*Distribution of Grades*

	TOTAL NUM- BER OF MARKS	PERCENTAGES				
		A	B	C	D	E
Applied Mathematics.....	36	0	14	39	28	19
Archaeology.....	102	30	44	26	0	0
Architecture.....	117	27	37	23	10	3
Botany.....	19	10	32	32	16	10
Chemistry.....	627	5	34	38	17	6
Civil Engineering.....	82	4	18	46	27	5
Economics.....	332	16	27	41	14	2
Education.....	261	17	36	37	9	1
Electrical Engineering.....	67	16	31	35	13	5
English.....	629	44	32	16	5	3
French.....	306	12	27	31	16	14
Geology.....	88	9	46	35	10	0
German.....	278	15	30	25	22	8
Graphics.....	70	14	16	37	23	10
Greek and Latin.....	55	29	26	25	18	0
History.....	353	14	35	27	16	9
Mathematics.....	445	15	16	19	26	24
Mechanical Engineering.....	79	14	30	18	20	18
Philosophy.....	394	11	26	31	20	12
Physics.....	226	16	16	32	19	17
Political Science.....	172	13	30	43	14	0
Spanish.....	55	33	33	25	7	2
Zoology.....	74	33	27	28	4	8
General Average.....	4867	18	29	30	15	8
Theoretical Average.....		4	24	44	24	4

A comparison of these figures with those in my report of last year shows but slight changes in the percentages in the subjects that are taken by a large number of students. While there may be doubt as to the accuracy of the theoretical distribution with which these figures are compared, it is certain that there are departures from the general average of these grades that are clear evidence that some instructors have a habit of giving grades too high, and others of giving grades too low. It is reasonable to suppose that to some extent students are influenced in their selection of elective courses by the reputation of the instructor for giving high marks. This is a factor that obviously should not enter into any such election. A discussion of the matter will be invited at a Faculty meeting in the near future.



In my reports for the last two years, I have called attention to the inconveniences due to the fact that the chemistry courses are given in the Medical Building, fifteen minutes distant from our other buildings. The experiences of another year have emphasized these inconveniences. Students who attend the afternoon lectures in chemistry are given ten minutes to walk to the other buildings, if they have a class there. Invariably they are late. As our afternoon class periods are only fifty minutes, a delay of five minutes is serious. And further, many students will not register for a class that meets after the chemistry lecture because of the discomfort arising from the movement from one building to another. And other students refuse to take chemistry for the same reason. I understand, also, that the laboratory in the Medical Building is not only too small to suitably provide for the students electing laboratory courses, but is also needed for other uses by the Medical and Dental Schools. During the session of 1914-15 there were 171 students taking courses in the chemical laboratories, these courses counting for 393 credit hours, and requiring the presence of the students for 1179 actual hours each week. At the present time in this session of 1915-16 there are 208 students taking work aggregating 494 credit hours, and requiring attendance during 1472 actual hours each week. To provide properly for all these students is a task that must be a burden even to such a resourceful man as the Professor of Chemistry. I feel, therefore, that our most vital need is a new building, planned and built especially for chemistry, in the near neighborhood of our present buildings on G Street.

The attendance in many classes has now reached such a figure that the need of dividing them into sections is becoming pressing. During 1914-15 three classes were divided into sections for instruction purposes, and in this present session of 1915-16 three other classes were so large that additional sections were formed. This indicates the need of the appointment of additional instructors to care for these extra classes.

In the annual report of Dean Munroe of the School of Graduate Studies is found the following:

The number of students enrolled and the degrees sought are set forth in the following table

Students Enrolled 1914-1915	TABLE I	By Categories
In Attendance.....		6
Civil Engineer.....		6
Electrical Engineer.....		4
Mechanical Engineer.....		2
Master of Science.....		31

TABLE I—Continued

Students Enrolled 1914-1915	By Categories
Master of Arts.....	21
Doctor of Civil Law.....	1
Doctor of Philosophy.....	26
Total.....	97

Institutions from which Candidates received the Degrees they hold were:

Bethany College.....	2
Bridgewater College.....	1
Bryn Mawr College.....	2
Bucknell College.....	1
College City of New York.....	1
Colorado College.....	1
Cornell University.....	4
Dartmouth.....	1
Franklin and Marshall.....	1
George Washington University.....	52
Harvard University.....	2
Hillsdale College.....	1
Johns Hopkins University.....	1
Kansas City College of Law.....	1
Kansas State Agricultural College.....	3
Leland Stanford Junior University.....	1
Lowell Textile School (Mass.).....	1
Maryland Agricultural College.....	4
Millersville State Normal School.....	1
Nebraska State Normal School.....	1
New Hampshire College.....	1
New York State Teacher's College.....	1
Norrkoping Gymnasium (Sweden).....	1
Oklahoma Agricultural and Mechanical College.....	2
Pennsylvania State College.....	1
Purdue University.....	1
Rhode Island State College.....	1
Roanoke College.....	2
Rock Hill Academy.....	1
St. John's College (China).....	1
Syracuse University.....	2
Union College.....	1
University of California.....	1
University of Chicago.....	1
University of Cincinnati.....	1
University of Ghent.....	1
University of Kansas.....	1



University of Illinois.....	3
University of Iowa.....	2
University of Maine.....	1
University of Minnesota.....	2
University of Nebraska.....	1
University of Pennsylvania.....	2
University of Vermont.....	1
University of Virginia.....	1
University of Wisconsin.....	1
U. S. Naval Academy.....	2
Wesleyan University.....	2
Yale University.....	1

I present the following table in which the number of students for each category is set forth for each year of the decade, 1905-1914.

*Candidates Enrolled 1905-1914*

DEGREES SOUGHT	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	TOTAL
In attendance.....	5	9	10	14	10	8	6	11	6	6	85
Civil Engineer.....	2	2	3	2	2	2	4	5	6	6	32
Electrical Engineer.....	2		3	4	2	1	2	3	2	4	23
Mechanical Engineer.....	1						2		1	2	6
Master of Science.....	12	9	7	9	7	7	9	21	27	31	139
Master of Arts.....	12	11	24	30	24	15	18	27	24	21	206
Doctor of Civil Law.....				2		1		1	1	1	6
Doctor of Jurisprudence..			1	1	1						3
Doctor of Philosophy.....		45	47	51	43	21	36	34	27	26	368
Total.....	82	74	94	114	89	55	77	92	94	97	868

From inspection of this table it is seen that we have not since reached the total enrollment of 1908-1909 but what is more encouraging is that we find the enrollment for the three last years to fluctuate less than any former period and to be steadily though slowly rising.

During the year 1914-1915 graduate degrees were conferred upon 32 candidates. The several degrees conferred and the number of each are shown in the following Table.

*Degrees Conferred 1914-1915*

Civil Engineer.....	3
Electrical Engineer.....	1
Mechanical Engineer.....	1
Master of Science.....	13
Master of Arts.....	9
Doctor of Philosophy.....	5
Total.....	32

The doctorate degrees were won only after the candidates had each publicly and successfully defended his thesis before a Board of Experts, composed of persons not connected with the University. It is well understood that any person present at a Doctorate Disputation may take part in the interrogation of the candidate and that the members of the Board of Experts must, in deciding on the candidate's fitness, take into account the candidate's success in defending his thesis from the attacks of experts in the audience as well as from the attacks of its members. I am pleased to report that during the past year experts on the theses topics chosen by our candidates have been present at the Disputations to a larger degree than ever before and they have taken part in the interrogation of the candidates. This is a condition that should be encouraged and fostered by the University authorities for there is no greater safeguard for the protection of this most important degree than this public examination of the expert by any expert who may choose to attend the Disputation. . . . I have been impressed with the often repeated charge that the training of the Doctor of Philosophy was along too narrow lines, that he was too highly specialized. While I am ready to meet the criticism and to show the necessity for specialization I recognize its force and I have repeatedly urged in these annual reports that all our graduates be required to attend a course of lectures on the correlation of the sciences, using the term broadly as it was used at the St. Louis Congress. The difficulty in carrying this into effect has laid in our poverty. Fortunately through the generosity of the Belgian Scholarship Committee we shall at last be able to offer to our students an exposition of these relations by a master which cannot fail to broaden their intellectual horizons and I trust that no student enrolled with us will fail to grasp this splendid opportunity.

Dean Wilbur of Columbian College in his annual report says:

Registration for the session was 594. This marks a steady growth in the College. The registration for 1913-1914 was 484. The registration for 1912-1913 was 353.

The distribution of the students in the various curriculum groups was as follows:

Candidates for the degree of A.B. . . . .	243
Group I (Men 4, Women 11) . . . . .	15
Group II (Men 20, Women 59) . . . . .	79
Group III (Men 38, Women 19) . . . . .	57
Group IV (Men 74, Women 18) . . . . .	92
Candidates for the degree of B.S. in Chem. (Men 54, Women 8) . . . . .	62
Candidates for the degree of B.S. in Medicine (Men 12) . . . . .	12
One-year Pre-Medical Students (Men 20, Women 3) . . . . .	23
Special students (Men 118, Women 136) . . . . .	254
Total (Men 337, Women 257) . . . . .	594



It is important to know the distinctive character of these various groups. Under the Bachelor of Arts registration, Group I is the Latin classical curriculum, relatively small. Group II is the Modern Language curriculum, relatively large. The registration in these two groups would suggest that the discipline of culture to be derived from the study of great literatures is now to be obtained very largely in our college courses from the modern languages. All great literatures are properly classical studies and sources of humanistic culture, and the distribution of our student body suggests the importance of teaching the modern languages in ways that will yield educational results not less cultural than those obtained once almost exclusively from Latin and Greek studies. Group III is a scientific curriculum emphasizing mathematics and the natural sciences, and this registration including nearly one-fourth of the entire registration for Bachelor of Arts is, considering the special scientific groups leading to chemistry and medicine, and our close association with the College of Engineering, an excellent showing for this important group of studies. Group IV, emphasizing science and economics, is relatively large. Students preparing for the diplomatic and consular service, and for the Law School, register in this group. This is a very important group. Among the college men of the Consular Service there are more men from George Washington University than from any other educational institution. We owe this to our position in the District of Columbia, and to the consistent development of a curriculum of studies in the field of the Consular service. Preparation for our own Law School is also a constant and enlarging opportunity. We may expect that the registration in this group, already large, will become much larger in the immediate future. The Bachelor of Science in Chemistry Group constitutes a little more than 10 per cent of our entire registration. In recent years the increase in this group has kept pace with the growth of the student body, maintaining about this percentage of the entire registration. The two medical groups, Bachelor of Science in Medicine and the one-year Pre-Medical Group, are yet relatively small, but the students preparing for the Medical School are of increasing importance in Columbian College. In the immediate future two years of college study in preparation for the regular course in medicine will be required, and when this change has been definitely accomplished and is clearly understood, the curriculum Group preparing for the Medical School will enroll a considerable body of students in Columbian College each year, and with the enforcement of two years of pre-medical study, all such college preparation will lead, on the completion of the professional course in medicine, to a college degree.

In the various scientific groups of the session of 1914-1915—A.B. Group III, B.S. in Chemistry, B.S. in Medicine, and the One-year Pre-Medical Group—27 per cent of our entire student body was pursuing courses including work in the natural sciences. These natural

science courses are so necessary in the proper work of the College that they should be maintained and developed to the highest state of efficiency.

The special students are mostly over twenty-one years of age. They are always prepared for the courses for which they register and in most cases they have the full college preparation or more. The special educational demands of the Civil Service, chiefly in scientific subjects, bring us a very large number of special students.

Our students are largely from the District of Columbia. Of the 594 students registered in 1914-1915, 522 resided in the District of Columbia, and 72 came from outside the District. This registration, with nearly 88 per cent residing in the District of Columbia, shows that Columbian College is rendering an important service in higher education to the city of Washington. If the opportunities now offered by Columbian College should be withdrawn, it is probable that only a small percentage of these students would go to college at all. . . .

Students who entered Columbian College in 1914-1915 presented certificates of preparatory study as follows: Central High School, 38; Western High School, 25, Eastern High School, 13, McKinley Manual Training School, 9; Business High School, 16; private schools in Washington, 26; out-of-town schools, 133. . . .

The general prosperity of the University in 1914-1915 was attended in the student body by a wholesome respect and a spirit of loyalty that is an appreciable influence in the class room and in all the associations of college life. There has been also a consistent regard for high standards maintained by the Faculty and creditably appreciated by the students. Notwithstanding the large classes we continue to retain the advantages of a small college where the under-classmen are taught by the professors who teach the advanced classes and direct the work of the department. The personal influence, the individuality and the scholarship of these men, give character to the classroom work, and together with a student body of exceptional interest and quality, constitute the organized educational force of Columbian College.

Dean Hodgkins in his report upon the College of Engineering says:  
The total registration for the session was as follows:

Former students of the College of Engineering.....	111
New students.....	101
Students previously registered in other departments of the University.....	7
Total.....	219
Number of men.....	216
Number of women.....	3



These students may be classified as follows:

Candidates for degrees:

	<i>Freshmen</i>	<i>Sophomore</i>	<i>Junior</i>	<i>Senior</i>	<i>Total</i>
Architecture.....	8	4	6	2	20
Civil Engineering.....	28	13	12	6	59
Electrical Engineering.....	10	5	8	2	25
Mechanical Engineering.....	14	12	7	2	35
	60	34	33	12	139
Special Students.....					80
					219

In years of attendance in the College of Engineering they are classified as follows:

First year.....	108
Second year.....	44
Third year.....	25
Fourth year.....	14
Fifth year.....	19
Sixth year.....	5
Seventh year.....	3
Eighth year.....	1

Students were admitted to advanced standing on certificates from Bethany College; Brown University; Cooper Union; Cornell University; Georgia School of Technology; Haverford College; Harvard University; Johns Hopkins University; Lowell Textile School; Maryland Agricultural College; Massachusetts Institute of Technology; Missouri School of Mines; New Mexico School of Mines; Princeton University; United States Naval Academy; University of Illinois; University of Kansas; University of Michigan; University of Nebraska; University of Wisconsin; Webb Academy of Naval Architecture; Williams College.

Students in attendance held degrees as follows:

- 1 A.B. from George Washington University.
- 3 LL.B. from George Washington University.
- 1 A.B. from Bethany College.
- 1 B.S. from Connecticut State College.
- 1 M.E. from Cornell University.
- 1 LL.B. from Georgetown University.
- 1 A.B. from Harvard University.
- 1 A.B. from Haverford College.
- 1 A.B. from New Windsor College.
- 1 A.M. from University of Kansas.

- 2 A.B. from University of Nebraska.  
 1 A.M. from University of Nebraska.  
 1 A.B. from Williams College.

Students were admitted to the Freshman Class on certificate from the following schools McKinley High School of Washington; Central High School of Washington; Eastern High School of Washington; Western High School of Washington; Business High School of Washington; Emerson Institute of Washington; Hall Noyes School of Washington, Y. M. C. A. Institute of Washington; Friends School of Washington; City College of Washington, Washington Collegiate School; Oahu College, Honolulu; Canton College, China; Regents Certificate, New York; Stuyvesant High School, New York; Manual Training High School, Brooklyn, N. Y.; St. Johns School, Brooklyn, N. Y.; East High School, Rochester, N. Y.; Rogers High School, Newport, R. I.; High School, Somerville, Mass.; Pennington School, N. H.; High School, Sunbury, Pa.; High School, DuBois, Pa.; Baltimore Polytechnic Institute; Morton High School, Lexington, Ky.; High School, Waterloo, Ill.; High School, Berlin, Wis.; High School, Horton, Kan.; High School, Leavenworth, Kan.; High School, Canton City, Col.

Out of the sixty students admitted to the Freshman Class as candidates for degrees, thirty-five were admitted with conditions. The fact is, however, that the majority of these thirty-five conditioned students presented full fifteen points for admission. The conditions imposed were due, in the main, to our requirement of four entrance units in modern languages. The majority of High School students study modern languages only two years, and are therefore admitted to the College of Engineering with a condition. Of course these conditions must be removed before graduation, but the arrangement of class periods does not make it possible to remove the condition in the first year in College, in many instances. Many students plan to remove conditions by special study during the summer vacation.

The conditions imposed were as follows:

	Units
In Languages.....	50
In Mathematics.....	13
In Chemistry.....	2
Total.....	74

During the year 26 units of condition were removed.

Our afternoon students are not always able to remain in attendance during the entire session. Withdrawals are usually due to home duties, to change of office duties, or to financial difficulties. The attendance during the months of the session were as follows October, 200; November, 195; December, 190; January, 191; February, 192; March, 185; April, 181; May, 173.



This shows a slightly greater stability of attendance than during the previous session, since the average attendance was 17 greater while the total enrollment was 13 greater.

A large percentage of the students in engineering attend the afternoon classes, and a fair proportion of such students are employed in technical or engineering work during the day. This makes for earnestness in the student body; and without doubt the practical experience such students gain in their various employments is of much benefit to them in their studies in the University. It is hoped, however, that there will now be an increase in the number of students who give their entire time to their college work. In order to provide for full time students it will be necessary to duplicate courses, to some extent, so that there may be classes in technical subjects before five o'clock. This cannot be done completely until more of our teaching is by men giving their entire time to the University. With our present force of instructors we are now duplicating certain technical courses of the Freshman and Sophomore years and it is expected that during the next session there will be in attendance enough full time students of the Junior year to warrant a duplication of some of the Junior courses.

Dean Ruediger of Teachers College states in his report:  
The enrollment was

	1914-15	1913-14
Men.....	6	9
Women.....	135	122
Total.....	141	131

This enrollment shows an increase of slightly less than 8 per cent over that of the year before, but as the increase the year before was 50 per cent over that of 1912-13, even this small increase indicates a healthy growth. The enrollment this year has already (Nov. 5) reached 141.

	1914-15	1913-14
Previously registered.....	80	67
New registrations.....	60	64
	141	131

The attendance by months was: November, 121; December 123; January, 123; February, 125; March, 123; April, 123; May, 119.

Regular.....	128
Special.....	13
Total.....	141

Of the special students one held the Bachelor of Science degree from Columbia University, eight held the Bachelor of Arts degree from this University, and four were unable to satisfy our entrance requirements.

Regular students admitted: Without conditions, 126; with conditions, 2; total, 128.

Graduates of a Washington High School.....	97
Graduates of other secondary schools.....	33
Non-graduates.....	11
Total.....	141

Graduates Washington Normal School, No. 1.....	72
Graduates other normal schools.....	13
Total.....	85

The average amount of work carried was.....	6 hours
Median amount.....	4 hours
Most frequent.....	2 hours

Twenty students carried 15 hours or more. Sixty-four students carried 3 hours or less.

These figures are based on the amounts of work registered for, but this did not remain stationary throughout the year. A few students added to their original registration but more dropped a part of their work. The figures indicate that by far the most of our students are part time students and that Teachers College is reaching the teachers in the schools of Washington and vicinity.

[In respect to practice teaching I mentioned briefly in my report a year ago that a new opportunity appeared to be opening in St. John's Church Orphanage. A demonstration and practice school was opened in this orphanage on January 4 and since that date all of our practice teaching has been done in that school. About sixty children ranging from six to sixteen years were in attendance last year. These were divided into six classes, corresponding roughly to the first six or seven grades of the public schools. Two rooms for school purposes being available, the two higher classes were placed in one and the four lower classes in the other.

The teaching was done in the main by the students taking the courses in Observation and in Practice Teaching. But owing to the demands of their other college work, most of these students could not give generously enough of their time to lend the desired continuity to the work of the school and we therefore found it necessary to appoint what may be called two permanent teachers, one for each room. One of these being obliged to resign, a student in Columbian College getting University Aid took her place. In addition to the three persons mentioned, all of whom were students in the University, twelve other students, one



man and eleven women, had charge of classes for periods of varying lengths. All fifteen gained valuable teaching experience. On the whole an effective school was conducted and the pupils made commendable progress. The pleasantest relations between teachers and pupils prevailed throughout and when the work came to a close on May 12, the pupils both in word and deed manifested sincere regret because the school did not continue in session longer.

The systematic work in observation we are carrying on in the high and elementary schools of the city as formerly.

---

In the annual report of Dean Borden of the Department of Medicine he calls attention to various improvements in the Medical building which have been satisfactorily completed. In addition he states:

During the past year work on the Museum has progressed steadily. A large number of valuable specimens has been added to the collection and a card index catalogue of the exhibits arranged so that they may be studied by the students with the greatest possible advantage. In the course of the clinical teaching the specimens with the attached histories are frequently used by the professors for the instruction of the students.

A committee is at present at work on a plan for a better correlation of the didactic teaching in the Medical School. For the second year dental students a laboratory course in metallurgy has been inaugurated. For the benefit of the second year men in the veterinary course, the course in chemistry has been placed under the direct control of the Medical Faculty. During the past year a new plan has been adopted in regard to vacant classes. Where a member of the visiting faculty is unable to meet his class at the appointed hour, a member of the full time faculty is called upon to fill the engagement. In this way the student is bound to receive during the course of the school year, the required number of lecture periods.

As anticipated in my last report a reduction in the number of students is to be noted. Notwithstanding the recently increased requirements for admission to the freshman class, the school still continues to draw from all parts of the United States, as well as from foreign countries, a select student body. The number of matriculants at the beginning of the session of 1914 was 23. The total of the student body including the special students (2) was 147.

As noted in the preceding paragraph, the candidate for admission to the freshman class must meet the requirements of the Association of American Medical Colleges, one year of college work physics, chemistry, biology and a modern language. In the premedical course at Columbian College, 31 students are at present taking the prescribed course with the view of entering the freshman year in the Medical School.

The non-resident student list still shows a gratifying adherence to the figures of previous years. Six foreign countries have contributed to this list a total of 14 students. The District of Columbia students number 46 (also 2 special students), while the states throughout the Union are represented in the Medical School by a total of 85 students from 24 different states.

\* \* \* At the annual commencement exercises of the University held in June, the degree of Doctor of Medicine was conferred upon 25 candidates.

The tables of the American Medical Association for the year ending April 24, 1915, in which the standing of the graduates before the state boards at home and in the different states are given, can not be other than a source of intense gratification to the officers and student body of the entire University. Particular stress is laid by the Council on Medical Education of the American Medical Association on the standing of graduates before examining boards, and the standing of the graduates in this respect figures to a considerable extent in the class standing of the school. During the year above noted, twenty of the graduates of this school presented themselves before examining boards at home and abroad. A more gratifying showing on the part of our graduates would be impossible, for during that period not a single failure to pass the required examination is recorded.

Dean Walton of the Dental School gives the following in his annual report:

The teaching staff consisted of—

Professors.....	11
Associate Professors.....	10
Instructors.....	15
Demonstrators.....	3

Number of matriculants were:

Freshman.....	50
Juniors.....	29
Seniors.....	23
Special.....	7

Number enrolled July 1 were:

Freshman.....	43
Juniors.....	29

Number graduating were..... 13

Number not graduating were..... 8

Cumulative results of tabulating State Boards reports for grades of 61 Colleges of the United States, shows a standing for the years 1911—



1912-1913 of only  $\frac{3}{8}$  per cent of failures of our graduates before these various State Boards.

The steady growth of the Dental School since I assumed the Deanship in May, 1909, has been particularly gratifying to all concerned. The matriculations since September, 1909, have been as follows: 1909, 16; 1910, 23; 1911, 27; 1912, 35; 1913, 40; 1914, 50.

The increase from 16 to 50 students is considered excellent in view of the fact that our entrance requirements are being rigidly enforced and the school is constantly receiving a much better qualified class of students.

The Dental Faculty is very much pleased and impressed with the many general improvements made in equipment during 1914-1915: The remodeling of two laboratories, the building of a new one; the erection of much needed lockers; the enlargement of the Infirmary; the equipment of the Infirmary; the construction of a modern extracting room and the now sanitary appearance of the whole materially changes the appearance of this department, placing it on a plane with larger and wealthier institutions of this kind.

Dean Fraser of the Law School makes an interesting report for the past year from which the following is taken:

The teaching force numbered fourteen of whom eight were engaged in practice and six gave all their time to the school, one more than in the preceding year.

Several additional subjects were added to the curriculum, as shown by the following comparative table of weekly half-year hours of class instruction:

<i>Year</i>	<i>Given once</i>	<i>Repeated</i>	<i>Total</i>
1914-1915.....	96	62	158
1913-1914.....	87	55	142
Increase.....	9	7	16

The full-time instructors conducted 63 half-year hours of which 57 were repeated, a total of 120; the part-time instructors 33 of which 5 were repeated, a total of 38. The time of instruction and the average enrollment for the subjects of the different periods were:

3 subjects from 7.50 to 8.40 a.m. average enrollment.....	43
19 subjects from 9 a.m. to 12 m. average enrollment.....	27
30 subjects from 4.50 to 6.30 p.m. average enrollment.....	65

The gross registration for the year was 403, 396 men and 7 women, an increase of 48 over the preceding year.

A table has been compiled showing the enrollment from 1911 to 1915 of the twelve schools in the Association of American Law Schools

which had the largest enrollment in 1911-12. It shows that this school has had the largest increase and moved from twelfth place in 1911-12 to fifth place in 1914-15, in respect to enrollment.

*Enrollment 1911 to 1915 in Twelve Schools in the Association of American Law Schools, which had the Largest Enrollment in 1911-1912*

	1911-1912	1912-1913	1913-1914	1914-1915
Harvard.....	809	745	694	730
Michigan.....	793	779	612	679
Southern California.....	481	530	605	551
Yale.....	420	179	133	146
Columbia.....	417	525	493	494
Pennsylvania.....	374	381	374	360
Cornell.....	330	335	293	274
Minnesota.....	325	214	176	177
Chicago.....	320	286	319	344
Texas.....	318	389	416	352
Northwestern.....	309	308	352	367
George Washington.....	306	312	355	403
Relative rank of George Wash- ington.....	12th	8th	7th	5th

A table showing the enrollment in Law Schools in the District of Columbia from 1911 to 1915, follows:

*Enrollment in Law Schools in District of Columbia, 1911 to 1915*

	1911-1912	1912-1913	1913-1914	1914-1915
Georgetown University.....	924	1003	1005	998
George Washington.....	306	312	355	403
National University.....	238	179	201	171
Washington College of Law.....	118	114	129	148
Catholic University.....	28	56	89	100

The students registered from the District of Columbia, 44 states, Hawaii, Philippine Islands, Cuba, China, Japan, Mexico, and Roumania. The largest numbers were, from the District, 107; New York, 21; Massachusetts, 17; Pennsylvania, 16; Illinois, 15; Utah, 15; Iowa, 14; Virginia, 14; Maryland, 12; Ohio, 11; Minnesota, Tennessee, and Texas, 10 each.



The students were classified, and divided between the forenoon (9 a.m. to 12 m.) and the afternoon (4.50 to 6.30) sections as follows:

	a.m.	p.m.	total	
Candidates for LL.B. degree	First Year.....	37	110	147
	Second Year....	14	89	103
	Third Year.....	14	71	85
Candidates for LL.M. degree.....	4	14		18*
Special (not eligible for degree).....	7	46		53
Total.....	76	330		403*
Total 1913-14.....	69	276		355

\*Three counted in both groups.

Attention was directed in my last report to the relatively small attendance in the forenoon sections. It is regrettable that the ratio of increase over the preceding year in the afternoon section is nearly double that in the forenoon. The first year forenoon section was proportionately larger but there has been a tendency for the students who give all their time to the school work in the first year to find employment, and so to attend the afternoon sections, in their second and third years. The tendency was strengthened by the fact that all second-year students were required to take some subjects which were given only in the afternoon. This deficiency has been remedied for the current year and a complete course is now available in the forenoon. It is hoped that the facilities offered may attract more full time students and hold them in the forenoon sections.

A table has been compiled showing the number of students who had no outside employment, were employed in the various departments of the United States and District Governments, and in different kinds of private employment. No employment was reported by 68, Government employment by 265 and private employment by 70. Attention is called to the large number of employees at the Capitol (56, including the Congressional Library) and Patent Office (63). These are factors to be kept in mind in deciding on the proper location for a law school building.

*Classification of Students by Employment, 1914-1915.*

No Employment reported....	68	Census Bureau.....	1
Governmental Employment:		Civil Service Commission....	2
Agricultural Department....	13	Coast and Geodetic Survey..	1
Army Officers.....	3	Commerce.....	14
Army War College.....	3	Congressional Clerks, Secre-	
Bureau of Engraving.....	1	taries, etc.....	43

Congressional Library.....	13	Weather Bureau.....	3
Diplomatic Corps.....	1	White House.....	2
D. C. Government Courts...	1	Department not given.....	1
D. C. Executive Departments	10	Private Employment:	
General Land Office.....	3	Assistant Librarians.....	3
Geological Survey.....	3	Ship's Architect.....	1
Government Printing Office.	1	Bank clerks.....	4
Hygiene Laboratory.....	2	Bookkeepers.....	2
Indian Office.....	3	Builders.....	1
Interior Department.....	3	Cashiers.....	1
Interstate Commerce Com...	9	Clerk, Carnegie Institution.	1
Department of Justice.....	3	Hotel or Club clerks.....	2
Department of Labor.....	4	Div. Supt. Telephone Co....	1
National Museum.....	1	Insurance Agents.....	1
Naval and Marine Corps		Lawyers.....	5
Officers.....	8	In Lawyer's offices.....	7
U. S. Navy.....	1	Newspaper work.....	7
Navy Department.....	6	Patent Lawyers.....	10
Navy Yard.....	2	With Patent Lawyers.....	10
Patent Office, clerks.....	1	Night Mgr., Telegraph Dept.	
Patent Office, examiners....	62	So. Rwy.....	1
Pension Office.....	1	Clerk, So Rwy.....	1
Post Office.....	12	Real Estate.....	3
Public School Teachers.....	2	Salesmen.....	3
Reclamation Service.....	3	Secy-Treas., Arcade Co....	1
State Department.....	1	Private School Teachers....	4
Treasury Department.....	9	Telegraph operators.....	1
War Department.....	13		

Of the 350 regular students, candidates for degrees, 115 (33 per cent) were college graduates, 98 (28 per cent) had part of a college course, and 137 (39 per cent) were high school graduates. The percentages show little change from the preceding year.

The report of the United States Commissioner of Education for 1913-1914, shows that the school has a great majority of the college graduates studying law in the District, and that it stands sixth in the Association of American Law Schools in respect to college graduates enrolled. The superiority of these students in their law studies was brought out by a comparative table in my last report. The following table shows the colleges from which they were graduates.



*College Graduates, Candidates for Degrees, 1914-1915.*

Alabama, University of.....	1	Nebraska, University of.....	1
Asbury College.....	1	Nebraska Wesleyan Univer-	
Austin College.....	3	sity.....	1
Bowdoin College.....	2	New York University.....	1
Case School of Applied Sciences	1	North Dakota, University of..	1
Charleston, College of.....	1	Northwestern College, Water-	
Chicago, University of.....	2	town, Wis.....	1
Colgate University.....	1	Ohio Northern University.....	2
College of the City of New		Ohio Wesleyan University.....	1
York.....	1	Pacific University.....	1
Columbia University.....	2	Pennsylvania Military College	1
Cornell University.....	5	Pennsylvania State College...	1
Dartmouth College.....	3	Pennsylvania, University of	1
Delaware College.....	1	Princeton University.....	3
Ewing College.....	1	Purdue University.....	1
Franklin and Marshall College	1	Rollins College.....	1
Georgetown College.....	1	South Dakota, University of	1
George Washington University	17	Southern Minnesota Normal	
Hamilton College.....	3	College.....	1
Harvard University.....	7	Syracuse University.....	1
Henry Kendall College.....	1	Tennessee, University of.....	1
Iowa State College.....	2	U. S. Military Academy.....	1
Iowa, State University of....	2	U. S. Naval Academy.....	8
Iowa Wesleyan College.....	1	Utah, University of.....	3
Johns Hopkins University....	1	Virginia, University of.....	1
Kalamazoo College.....	1	Washington and Lee Univer-	
Lehigh University.....	2	sity.....	3
Massachusetts Institute of		Western Maryland University.	1
Technology.....	2	William and Mary College....	1
Michigan Agricultural College.	1	Wisconsin, University of.....	4
Michigan, University of.....	2	Worcester Polytechnic Insti-	
Minnesota, University of.....	1	tute.....	2
Missouri, University of.....	1	Yale University.....	6

The year was marked by a more diligent attention to studies. The rule adopted by the Faculty denying credit for any subject in which unexcused absences exceed 10 per cent has had a good effect on the small number of negligent students. The great majority do not require the pressure of rules, and did not take advantage of the 10 per cent allowed. The school's reputation for strict standards deters students from entering who are unwilling to give the requisite time and energy to their studies, or causes them to quit after experience with the requirements. The standard set is within the capacity of the average man with government employment, but requires determination and

sacrifices of all but the more brilliant in order to graduate in three years. It is unfortunate, too, that for all employed students, the pressure of the daily assignment precludes independent study and research and hinders the breadth of scholarship to which the few would, under other circumstances, attain.

The following table presents the scholarship record for the year as indicated by the written semi-annual examinations. It shows that 37 per cent of those examined were conditioned, failed, or both in one or more subjects, which indicates the standard of scholarship maintained. The percentage was highest in the first year, and lowest with the succeeding years.

*Examination Record 1914-1915*

	LL.B. 1ST YEAR		LL.B. 2D YEAR		LL.B. 3D YEAR		LL.M.		SPECIAL ALL YEARS		TOTAL	
No. examinations.....	26		1		4		5		29		65	
No. examined.....	121		102		82		13		23		341	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Passed in all subjects....	65	54	58	57	66	80	12	92	13	56	214	63
Conditioned, Failed, or both in one or more subjects.....	56	46	44	43	16	20	1	18	10	44	127	37

The Faculty Committee went over the records of all the students after the mid-year and again after the final examinations. Action was taken on the records of 77 students—10 were denied re-registration, 8 denied any credit for the work of the year, 18 placed on probation and 41 warned. The work of the Committee has a wholesome effect by the elimination of the incapable and indolent and the pressure it brings to bear on the negligent.

Of the 403 students enrolled 83 withdrew or were dropped during the year, and 57 were graduated. Of the 263 remaining at the end of the year, 10 were denied re-registration, and 61 including those denied credit and many placed on probation have not returned. Of the graduates 10 have returned for further work, making a total of 202 of the year's students enrolled at present.

The degree of LL.M. was conferred on 4 candidates and of LL.B. on 53 candidates.

The years of study in this school for the LL.B. degree by these successful candidates were: 1 year, by 4, 2 years by 5, 3 years by 30, 3½ years by 8, 4 years by 5, 4½ years by 1.

The graduates of the school were very successful in the bar examinations of the District. Of 22 graduates who wrote the examination in June, every one was passed, while of other candidates, 40 per



cent were failed. They are also successful in other jurisdictions, one of them leading the pass list in an examination in Wisconsin in January last.

The law library was increased during the year by 605 volumes, at an approximate expense of \$1,300. The chief purchases during the year were the English Law Reports and Encyclopedia of United States Supreme Court Reports. The library is the main item of equipment of a law school, and calls for increasing expenditures. The total number of books on September 1, 1915, was 6808.

The Legal Aid Society of the school dealt with 73 cases during the year. Of these, four cases were before the courts, and advisory opinions were given in others. Relief was secured in a considerable number of cases. The students take great interest in this work.

The inadequacy of the present quarters to meet the growing needs of the school, makes the demand for a law building more pressing, and calls for serious consideration of the feasibility of securing one very soon.

The Carnegie Foundation for the Advancement of Teaching, at the request of the American Bar Association, began in 1913 an investigation of the conditions under which legal education is carried on in the United States. The Foundation is still engaged on the work hoping to present its final report in 1916. It has already concluded an investigation of the methods of instruction used in the leading schools. In order to obtain an unbiased report it selected Dr. Joseph Redlich, professor of law in the University of Vienna, for the work. He came to this country in 1913 and spent several months visiting a number of the law schools using different methods. His report was published by the Foundation in December 1914, as "Bulletin No. 8" of its publications.

His report affirms the great value of the case system, and testifies to its great success. "I visited," he says, "particularly classes of the third year, in which difficult cases, as for example cases involving a 'conflict of laws' were analyzed by the students with great readiness and grasp of the subject matter; classes in which there stood out strongly not only excellent logical training, capacity for independent study, and especially for quick comprehension of the actual point of law involved, but also indisputable knowledge of positive law. I gained the impression that law students in the third year in our European law schools would hardly ever be found competent for such work." He states further that in so far as the aim of legal education is the development and training of young lawyers "the case method is undoubtedly successful." "The American student gains in the modern law schools of his country, all the practical knowledge of the law that any school can give to a future attorney or judge in an unparalleled manner."

Dr. Redlich urges two improvements on the case system as now employed. "The beginners in American law schools should be given

a legal propaedeutik, or preparatory course, which in a simple yet scientific manner shall set forth the elements of the common law; shall furnish, that is to say, a comprehensive view of the permanent underlying concepts, forms, and principles, not forgetting the elementary postulates of law and legal relationships in general." "It seems to me very advisable to add also at the end of the course lectures which shall furnish the American law student once more, before he steps out into practical legal life, a certain general summing up and survey of the law." This he believes would be best done by such subjects as Jurisprudence and Roman Law.

Before the report had appeared this school had determined that the subject of "Principles of Legal Liability," first offered in Harvard 1914-15, should be added to the curriculum. Under this head are brought together elementary principles common to several branches of the law, which had hitherto been taught as incidental to several subjects. The course is being taken by the present first year class, and meets the first recommendation of Dr. Redlich.

The majority of teachers of law will approve of his second recommendation. The need for instruction that will refer the principles learned throughout the course to their common philosophical bases, has long been felt by teachers and thoughtful graduates. This would be supplied by the study of Jurisprudence, while the comparative study of Roman law would produce a breadth of vision conducive to the readaptation of the common law to present social conditions.

Dr. Redlich would have these subjects as a fourth year course. A four year course is scarcely practicable as a requirement at the present time, but the volunteers for it should be encouraged. This school is in a good position for building up a graduate course, as the students, receiving fair salaries, can undertake it at comparatively small cost. The third year students also, might be permitted to elect one or two of these subjects in place of some of the more specialized common law subjects. The school should give consideration to this matter as soon as circumstances will permit.

The College of Pharmacy is one of the two affiliated institutions with financial autonomy. Dean Kalusowski reports in regard to this School that:

The registration of the College was as follows:

	Male	Female	Total
Freshmen.....	16	1	17
Juniors.....	19		19
Seniors.....	18	1	19
Special.....	4		4
Total.....	57	2	59



Losses during the year were as hereinafter indicated, such losses being due to changes in occupation, removals from the city, and other causes in no way reflecting upon the character of work the College was giving:

	<i>Male</i>	<i>Female</i>	<i>Total</i>
Freshmen.....	3	0	3
Juniors.....	3	0	3
Seniors.....	4	0	4
Total.....	10		10

The number of students pursuing regular courses who were admitted conditionally numbered eight at the beginning of the year. Of this number, one removed the condition standing against his name and four have withdrawn, leaving three in the College, two male and one female. The conditions against the three students remaining vary from two to four units on an entrance requirement of three years high school work or its equivalent.

The number of Senior students who qualified for, and were admitted to the examinations for graduation numbered sixteen, fifteen men and one woman. Of this number, thirteen men and one woman were found qualified for graduation.

The educational requirement for admission to the College was advanced, at the beginning of the scholastic year 1914-1915, from two years of high school work to three years of high school work or its equivalent. This advancement combined with the general economic condition of the country due to the war caused a falling off in the number of matriculants for the year. No students came from the South and the Southwest, where, heretofore, the College has drawn a number of students. . . .

The hours of instruction have been slightly increased until a total of twelve hundred sixty has been attained.

Dean Buckingham of the College of Veterinary Medicine reports that "The College still continues on a sound financial basis, all running expenses being promptly met. Several improvements were made and much equipment added."

## SUBSCRIBERS TO UNIVERSITY FUNDS SINCE JULY, 1910

GEORGE N. ACKER  
 CHARLES FRANCIS ADAMS  
 VERA E. ADAMS  
 MILTON E. AILES  
 OWEN F. ALDIS  
 L. P. ALTSCHU  
 AMERICAN EXPORTER  
 AMORY BROWN CO.  
 BERT T. AMOS  
 JOHN TAYLOR ARMS  
 JOHN D. ARCHBOLD  
 AULT & WIBORG CO.  
 CHARLES B. BAILEY  
 WM. H. BALDWIN  
 L. A. BAUER  
 BAUSCH & LOMB OPTICAL CO.  
 W. H. BECK  
 CHARLES J. BELL  
 EMIL BERLINER  
 JAMES W. BERRY  
 BERRY & WHITMORE  
 F. H. BETHEL  
 HENRY G. BEYER  
 JOHN S. BIGGS  
 GIST BLAIR  
 CORNELIUS N. BLISS  
 BOARD OF LADY MANAGERS  
 OF G. W. U. HOSPITAL  
 EDSON BRADLEY  
 FRITZ vBRIESEN  
 CECIL BROWN  
 WM. S. BROWN  
 ALDIS B. BROWNE  
 WILLARD A. BROWNSON  
 ROGER S. G. BOUTELL  
 E. ROGER BOYLE  
 MAY P. BRADSHAW  
 EDWIN C. BRANDENBURG  
 MRS. B. H. BUCKINGHAM  
 N. LAMDON BURCHELL  
 ACHILLE E. BURKLIN

GEORGE BURNHAM, JR.  
 EUGENE A. BYRNES  
 W. K. CARR  
 CARTER, MACY & Co.  
 CARTER'S INK CO.  
 P. B. CHASE  
 CHI OMEGA FRATERNITY  
 THE H. B. CLAPLIN CO.  
 FRANK W. CLANCY  
 RICHARD COBB  
 MURRAY A. COBB  
 ALDEN M. COLLINS  
 COLUMBIAN WOMEN OF GEORGE  
 WASHINGTON UNIVERSITY  
 MAY T. COOKE  
 CHARLES I. CORBY  
 GEORGE E. CORSON  
 COTTON MANUFACTURERS' ASSOCIA-  
 TION OF SOUTH CAROLINA  
 CHARLES H. CRAGIN  
 LUCIUS M. CUTHBERT  
 C. C. CUYLER  
 HARRY C. DAVIS  
 CHARLES RAY DEAN  
 DEERING, MILLIKEN & Co.  
 CLARENCE W. DEKNIGHT  
 WM. I. DENNING  
 F. WARD DENYS  
 WM. H. DOBSON  
 JOHN DOLPH  
 JOHN R. DOSPASSOS  
 HENRY W. DRAPER  
 GEORGE W. DREW  
 DULIN & MARTIN CO.  
 B. ALFRED DUMM  
 F. E. EDGINGTON  
 JOHN JOY EDSON  
 EVERETT M. ELLISON  
 WILLIAM P. ENO  
 WILLIAM CORCORAN EUSTIS  
 JOSHUA EVANS, JR.



EVENING STAR NEWSPAPER Co.	WM. B. HIBBS
FRANK O. EVERETT	WILLIAM CORCORAN HILL
FAULKNER, PAGE & Co.	JOEL HILLMAN
EDWARD T. FENWICK	S. HOBERMAN
JOSEPH N. FIELD	HOWARD L. HODGKINS
W. W. FINLEY	EDWARD C. HONEY
F. L. FISHBACK	ARCHIBALD HOPKINS
HENRY H. FLATHER	THOMAS S. HOPKINS
WILLIAM J. FLATHER	WALTER STILSON HUTCHINS
LEWIS FLEMER	THOMAS HYDE
ALBERT F. FLINT	ARTHUR C. JAMES
JAMES M. FLINT	RALPH JENKINS
ROMULUS A. FOSTER	HENNEN JENNINGS
ALBERT F. FOX	MRS. MORRIS K. JESSUP
DANIEL FRASER	JOHN SCOTT JOHNSON
ISABEL C. FREEMAN	ELDRIDGE E. JORDAN
HORACE M. FULTON	JUILLIARD & Co.
LEE W. FUNK	OTTO H. KAHN
E. M. GALLAUDET	C. S. KALB
ADDISON I. GARDNER	S. KANN'S SONS & Co.
JULIUS GARFINKLE	KAPPA SIGMA FRATERNITY
LOUIS E. GILES	CRAMMOND KENNEDY
THEODORE N. GILL	JOHN S. KENNEDY
CHARLES C. GLOVER	BESSIE J. KIBBEY
M. GOLDENBERG	F. V. KILLIAN
HAYNER H. GORDON	GEORGE A. KING
J. HOLDSWORTH GORDON	WILLIAM BRUCE KING
P. F. GORMLEY	HUGH KNEIPP
AUDREY GOSS	HENRY KNOWLES
E. C. GRAHAM	GEORGE W. KNOX EXPRESS Co.
ANDREW JORDAN GREEN	STEPHEN E. KRAMER
CHARLES N. GREGORY	JAMES B. LAMBIE
W. F. GUDE	LANSBURGH & BROTHER
S. GUGGENHEIM	JOHN B. LARNER
WM. P. H. HABEL	VICTOR F. LAWSON
A. B. HAGNER	B. F. LEIGHTON
RANDALL H. HAGNER	JOSEPH LEITER
WM. HAHN & Co.	J. S. LEMON
JOHN HAYS HAMMOND	JOHN J. LENNEY
ELEANOR WILSON HANCE	FRANCIS E. LEUPP
MRS. JOHN HAY	ABRAHAM LISNER
HECHT & Co.	HOMER N. LOCKWOOD
GILES F. HEILPRIN	ERNEST G. LORENZEN
MYRON F. HENKEL	ALVIN M. LOTHROP
J. WM. HENRY	SETH LOW
CHRISTIAN HEURICH	FRANK O. LOWDEN



CLARA S. LUDLOW  
CHRISTOPHER K. MACEY  
HENRY B. F. MACFARLAND  
FREDERIC D. MCKENNEY  
RANDOLPH H. MCKIM  
W. DUNCAN MCKIM  
W. B. MCKINLEY  
GEORGE A. MCKINLOCK  
JOHN R. MCLEAN  
WAYNE MACVEAGH  
HERBERT M. MANNING  
ALLEN J. MARSH  
MARKDT & Co.  
BRADLEY MARTIN, JR.  
L. J. MATHER  
WM. G. MATHER  
WM. A. MEARNES  
H. A. METZ  
A. G. MILLS  
MINOT, HOOPER & Co.  
DAVID A. MOLITOR  
J. P. MORGAN  
J. P. MORGAN, JR.  
LEVI P. MORTON  
WM. B. MOSES & SONS  
CHARLES E. MUNROE  
FRANK A. MUNSEY  
NATIONAL SUPPLY Co.  
ALBERT B. NEAL  
FRANCIS G. NEWLANDS  
CLARENCE F. NORMENT  
ELIZABETH NOYES  
FRANK B. NOYES  
THEODORE W. NOYES  
OELRICHS & Co.  
W. O. OWEN  
E. S. PARKER  
PARKER, BRIDGET & Co.  
JAMES A. PATTEN  
EDITH L. PAUL  
JOSEPH PAUL  
STANTON C. PEELE  
STANTON C. PEELE, JR.  
S. J. PEELE  
HENRY C. PERKINS  
MARY FARR PERRY

THOMAS A. PHELAN  
PHI DELTA PHI FRATERNITY  
M. PHILIPSBORN  
DUNCAN C. PHILLIPS  
PI BETA PHI FRATERNITY  
ANNE L. PIERCE  
IRENE M. PISTORIO  
D. S. PORTER  
GEORGE B. POST & SONS  
D. W. PRENTISS  
SPENCER B. PRENTISS  
KATHERINE M. RABER  
JESSE W. RAWLINGS  
JESSE H. RAMSBURGH  
P. A. REHR  
HUGH REILLY  
CHARLES W. RICHARDSON  
WM. C. RICHARDSON  
H. H. RIDDLEBERGER  
W. C. RIVES  
P. M. RIXEY  
S. ROCHE  
SAMUEL ROSS  
CUNO H. RUDOLPH  
JAMES H. SAVILLE  
ELMER SCHATZ  
ALFRED F. W. SCHMIDT  
G. F. SCHUTT  
J. C. SHAFER  
JAMES SHARP  
ELIZABETH SHARPE  
MARY SHARPE  
SALLIE SHARPE  
E. S. SHEARSON  
DOROTHEA F. SHERMAN  
ALVA H. SHIPPER  
F. L. SIDDONS  
SIGMA ALPHA EPSILON FRATERNITY  
SIGMA PHI EPSILON FRATERNITY  
ABRAHAM SIMON  
WM. H. SINGLETON  
WM. A. SLATER  
J. HENRY SMALL, JR.  
DELLA G. SMALLWOOD  
DOROTHY SMALLWOOD  
CHARLES S. SMITH



DELOS H. SMITH	WASHINGTON POST
DYER SMITH	JOHN L. WEAVER
T. TOWSON SMITH	E. MARGUERITE WELLER
HAROLD B. STABLER	F. R. WELLER
A. STEIN & Co.	GEORGE P. WETMORE
EUGENE E. STEVENS	J. H. WHEELWRIGHT
ELMER STEWART	EMILIE M. WHITE
JOSEPH STEWART	GEORGE W. WHITE
CHARLES H. STOCKTON	HENRY WHITE
STONE & FAIRFAX	CLARENCE WHITMAN
ALEXANDER T. STUART	WILLIAM ALLEN WILBUR
GEORGE W. STUART	C. P. WILSON
DALLAS G. SUTTON	NATHANIEL WILSON
SWARTZELL, RHEEM & HENSEY Co.	W. A. WIMSATT
R. M. THOMPSON	HARVEY G. WINFIELD
WALTER TUCKERMAN	CHARLES WOOD
WILLIAM B. TURPIN	MAXWELL VAN ZANDT WOODHULL
LINEAS D. UNDERWOOD	S. W. WOODWARD
W. R. VANCE	WOODWARD & BALDWIN Co.
A. VAN DER VEER	A. S. WORTHINGTON
J. H. WADE	ZANDER & PLUGGE
PAUL WARBURG	ZELLERS & Co.
HARRY WARDMAN	HYMAN ZIRKIN
WM. S. WASHBURN	

